Pioneer sound.vision.soul

Operation Manual

ENGLISH

DVD MULTIMEDIA AV NAVIGATION SERVER

AVIC-N1

The screen shown in the example may differ from the actual screen.
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Table of Contents

Introduction

License Agreement **1**
- PIONEER AVIC-N1 - for U.S.A. **1**
- PIONEER AVIC-N1 - for Canada **3**

Terms and Conditions for the Tele Atlas Data **5**

Table of Contents **8**

Important Safety Information **11**

Notes Before Using the System and Additional Safety Information **12**
- Failure to Operate **12**
- After-sales service for Pioneer products **12**
- Purchasing Software Update **12**
- Product registration **12**
- Precaution **12**

Features (Characteristics of this software) **13**

Manual Overview **15**
- How to use this manual **15**
- Terminology **16**

Map Discs for Navigation System **17**
- Configuration of data recorded on discs **17**

Chapter 1
Basic Operation

Flow from Startup to Termination **19**

Basic Navigation **20**
- Memory navi mode **24**
- How to listen to a CD **24**
- The buttons **25**

Chapter 2
Menu and Map Display

How to Use Menu Screens **27**
- Main menu **27**
- Shortcut menu **28**

How to Use the Map **29**
- Switching the current position screen display mode **29**
- How to view the map of the current location **29**
- Changing the scale of the map **32**
- Moving the map to the location you want to see **32**

Chapter 3
Setting a Route to Your Destination

Finding Your Destination by Selecting the Type of Facility **35**
- Searching for Points of Interest (POI) **35**
- Finding a POI in your surroundings **36**
- Searching the facilities around the cross pointer **36**
- Displaying certain points of interest on the map **36**

Setting an Entrance or Exit of a Freeway as Your Destination **37**

Searching for Your Destination by Specifying the Telephone Number **38**

Route Calculation to Your Home Location or to Your Favorite Location **38**

Selecting Destination from the Destination History and Address Book **39**

Modifying the Route Calculation Conditions **39**
- Items that users can change **39**
- Perform the route calculation of the several route options, and select one **40**

Checking the Set Route **41**
- Checking the set route with the map **41**
- Checking the set route with text **42**
- Checking the set route from the Information menu **42**

Recalculating the Route to Your Destination **43**

Canceling the Route Guidance **43**

Adding Way Points to the Current Route **44**
- Adding a way point **44**
- Skipping a way point **44**
- Deleting a way point from the route **44**

Chapter 4
Editing the Navigation Utilities

Editing Registered Locations **45**
- Registering your home and your favorite location **45**
- Registering a previous location in the Address Book **46**
- Editing a location's information **46**
- Deleting Address Book or Destination History Information **48**
- Changing the position of locations registered in the Address Book **48**
- Loading registered locations data from a CD-R **48**

Setting Areas to Avoid **49**
- Registering an Area to Avoid **49**
- Changing or deleting an Area to Avoid **50**

Changing Background Picture **50**

Checking the Navigation Status **52**
- Checking sensor learning status and driving status **52**
- Checking the connections of leads and installation positions **52**
- Setting the Vehicle Dynamics Display **53**

Chapter 5
Customizing Your Navigation System
Modifying the Default Settings **55**
Items Users can Change **55**

Chapter 6
Using the AV Source (Built-in DVD Drive and Radio)
Basic Operation **59**
- Activating the touch panel keys **59**
- How to display each menu **59**

Operating the Built-in DVD drive **61**
- Touch key operation **62**
- Operation using the FUNCTION menu **64**
- Other DVD video function **65**

Radio **67**
- Listening to the radio **67**
- Advanced radio operation **68**
- Storing and recalling broadcast frequencies **68**
- Tuning in strong signals **69**
- Storing the strongest broadcast frequencies **69**

Chapter 7
Using the AV Source (Pioneer AV Equipments)
Multi-CD Player **71**
- Listening a CD **71**
- 50-disc multi-CD player **71**
- Advanced multi-CD player operation **72**
- Repeating play **72**
- Playing tracks in a random order **72**
- Scanning CDs and tracks **72**
- Pausing CD playback **72**
- Using ITS playlists **72**
- Using CD TEXT functions **73**
- Using compression and bass emphasis **74**

XM tuner **74**
- Listening to the XM **74**
- Switching the XM display **75**
- Storing and recalling broadcast stations **75**
- Switching the XM channel select setting **75**
- Selecting the XM channel directly **75**
- Display the ID code **76**

TV tuner **76**
- Watching the TV tuner **76**
- Advanced TV tuner operation **77**
- Storing and recalling broadcast stations **77**
- Storing the strongest broadcast stations sequentially **77**

DVD Player (S-DVD) **78**
- Playing a disc **78**
- Selecting a disc **78**
- Advanced DVD player operation **78**
- Repeating play **78**
- Pausing disc playback **79**
- Playing tracks in a random order **79**
- Scanning tracks of a CD **79**
- Using ITS playlists **79**

Chapter 8
Customizing the Audio Source Setting
Audio Adjustments **81**
- Introduction of audio adjustments **81**
- Using the equalizer **81**
- Using balance adjustment **81**
- Adjusting equalizer curves **82**
- Adjusting bass and treble **82**
- Adjusting loudness **83**
- Using subwoofer output **83**
- Using non fading output **83**
- Using the high pass filter **83**
- Adjusting source levels **84**
- Compensating for equalizer curves (EQ-EX) **84**

Setting Up the DVD Player **84**
- DVD setup adjustments **84**
- Setting the language **84**
- Setting assist subtitles on or off **85**
- Setting angle icon display **85**
- Setting the aspect ratio **85**
- Setting the parental lock **85**

Initial Settings **86**
- Adjusting initial settings **86**
- Switching the auxiliary setting **86**
- Setting the rear output and subwoofer controller **87**
- Switching the sound muting/attenuation **87**
- Switching the automatic disc playback **87**
- Switching the dimmer setting for sub-display **87**
- Changing the voice output of the navigation guidance **88**
- Switching the 5.1ch setting **88**

Other Functions **89**
- Setup adjustments **89**
- Setting the video input **89**
- Setting for rear view camera **89**
- Selecting the video of rear display **89**
- Setting the slide back function **90**
- Setting the automatic open function **90**
- Using the AUX source **90**
- Switching the background display **90**

Switching the Screen Using the DISP Button **91**
Language Code Chart for DVD **92**

Chapter 9
Operating Your Navigation System with Voice

Basics of Voice Operation **93**
- Flow of voice operation **93**

Voice Commands **94**
- Common commands **94**
- Commands for display change **94**
- Available voice commands related to navigation **94**
- Available voice commands related to audio **94**

An Example of Voice Operation **95**

Tips for Voice Operation **96**

Appendix

Installing the Program **97**

Memory Navi Mode **98**
- Navigation in the memory navi mode **99**
- What is manual downloaded memory area? **99**
- What is auto downloaded memory area? **99**
- About the icon for the memory navi mode **100**
- Major difference between the memory navi mode and the DVD navi mode **100**
- Cautions relating to auto reroute in memory navi mode **101**
- Operation outside the memorized area **101**
- Deleting the memory data **101**

Vehicles that Cannot Obtain Speed Pulse Data **102**

Conditions Likely to Cause Noticeable Positioning Errors **102**

About the Data being Deleted **102**

Limitation of Functions for Areas not Stored on the Disc **102**
- Other Function Limitations **103**

Troubleshooting **104**
- Problems in the Navigation screen **104**
- Problems in the Audio screen (common) **105**
- Problems in the Audio screen (during DVD video playback) **106**
- Messages and how to react to them **107**

Error Messages **109**

Route Setting Information **109**
- Route search specifications **109**
- Route highlighting **111**
- Intersection enlargement **111**
- Tracking **111**

Types of the Road Stored in the Disc **111**

About Folders and MP3 Files **112**

Copyright **112**

Glossary **113**

Display Information **116**
- Main menu **116**
- Shortcut menu **118**

Menu in the audio screen **119**
- AUDIO menu **119**
- INITIAL menu **119**
- SET UP menu **120**
- FUNCTION menu **120**

Important Safety Information

Before using your Navigation System, be sure to read and fully understand the following safety information:

- ❒ Read the entire manual before operating this Navigation System.
- ❒ The navigation features of this unit (and rear view camera option if purchased) is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgment, and care when driving.
- ❒ Do not operate this Navigation System (or the rear view camera option if purchased) if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system of reading the display, park your vehicle in a safe location and make necessary adjustments.
- ❒ Never allow others to use the system unless they have read and understood the operating instructions.
- ❒ Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. Please call 911.
- ❒ Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, one way streets, road closures, or traffic restrictions.
- ❒ Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- ❒ Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- ❒ Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles.
- ❒ To promote safety, certain functions are disabled unless the parking brake is on.
- ❒ The data encoded in the disc for this product is the intellectual property of the provider, and the provider is responsible for such content.
- ❒ Keep this manual handy as a reference for operating procedures and safety information.
- ❒ Pay close attention to all warnings in this manual and follow the instructions carefully.
- ❒ Do not install the display where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- ❒ Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- ❒ Using the most current map DVDs will allow for most accurate destination mapping. Update DVDs are available through your local Pioneer dealer.
- ❒ Never use headphones while driving.

⚠ WARNING

- ❒ Do not attempt to install or service your navigation system by yourself. Installation or servicing of the navigation system by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

Notes Before Using the System and Additional Safety Information

Failure to Operate

Should this product fail to operate properly, contact your dealer or the nearest authorized Pioneer service facility.

After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased the product for its after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:
Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

U.S.A
Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA
90801-1760
800 421-1404

CANADA
Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION DEPARTMENT
300 Allstate Parkway
Markham, Ontario
L3R OP2
1-877-283-5901

For warranty information, please see the Limited Warranty sheet included with your product.

Purchasing Software Update

Using the most current map DVDs will allow for most accurate destination mapping. Update DVDs are available through your local Pioneer dealer.

Product registration

Visit us at the following site:

http://www.pioneerelectronics.com

1. Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2. Receive updates on the latest products and technologies.
3. Download owner's manuals, order product catalogues, research new products, and much more.

Precaution

Parking brake interlock

Certain functions offered by this Navigation System could be dangerous if used while driving. To prevent them being used while in motion, there is an interlock with your vehicle's parking brake. If you attempt to use these functions during driving, their onscreen touch keys may be indicated in gray and inoperable. If so, stop in a safe place, apply the parking brake, then operate.

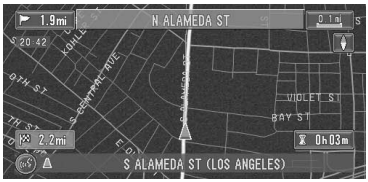
To ensure safe driving

⚠ WARNING

- **To avoid the risk of accident and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.**
- **In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.**

This unit detects whether your vehicle's parking brake is engaged or not, and prevents you from watching a DVD or TV on this display while driving. When you attempt to watch a DVD or TV, the warning **VIDEO VIEWING IS NOT AVAILABLE WHILE DRIVING** will appear on the screen.
To watch a DVD or TV on this display, park your vehicle in a safe place and apply the parking brake.

Color difference of the map display between day and night



Night display

The examples in this manual are illustrated using the daytime display. When driving at night, the colors you see may differ from those shown.
To use this function, the Orange/white lead of this unit must be connected correctly.

➲ "Day/Night Display" ➞ Page 56

⚠ WARNING

- **Do not use with vehicles that do not feature an ACC position.**

Rear View Camera

With an optional rear view camera, you are able to use this product as an aid to keep an eye on trailers, or backing into a tight parking spot.

⚠ WARNING

- **SCREEN IMAGE MAY APPEAR REVERSED**
- **USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.**

About this disc

Only use the Pioneer Map disc with Pioneer DVD Navigation Unit. You cannot use other discs. DVD videos and CDs can be played on AVIC-N1. When using AVIC-N1, refer to the "Hardware Manual".

Features (Characteristics of this software)

Touch panel key operation

It is possible to operate the navigation function and the Audio function by using touch panel key.

Compatible with the memorized navigation

Memorized navigation functions are provided to the hardware, which supports the memorized navigation mode.

Compatible with the Voice Recognition System

Using a separately sold Pioneer voice recognition kit (CD-VC1) will enable voice operation for both the navigation and AV functions.

Variety of View Modes

Various types of screen display can be selected for navigation guidance.
– Map View, Driver's View, Route View, Guide View
Two split screen modes are also available.
– Rear View mode (Rear view camera screen and Navigation map screen)
– AV Status (Audio status screen and Navigation map screen)
You can also display information on vehicle speed, acceleration, and voltage, etc.
– Vehicle Dynamics

⚠ CAUTION

- **The rear view mode is for monitoring the rear, for example, when towing a boat. Do not use this function for entertainment purposes.**

Wide Variety of Facility Information for POI Search

You can search your destination from all areas. About 12 million items of facility information are supported.

Auto Reroute Function

If you deviate from the set route, the system will re-calculate the route from that point so that you remain on track to the destination.

❒ This function may not work for certain areas.

You can set an Original Image as a Background Image

Your can store your own pictures on a CD-R in JPEG format and import original images in this format. These imported images can be set as a background image.

❒ Imported original images will be stored in the memory, but saving cannot be guaranteed completely. If original image data is deleted, set the CD-R again and re-import the original image.

Auto CD title and MP3 file listing

Title lists will automatically be displayed when a CD TEXT or MP3 disc is played. This system provides easy-to-operate audio functions that allow playback simply by selecting an item from the list.

Resume play

The resume point can be memorized while playing a DVD video/CD/MP3 disc on the built-in DVD drive. You can resume playback from the memorized section.

Manual Overview

This manual provides the important information you need to make full use of your new Navigation System. The beginning sections outline the Navigation System and describe its basic operation. The later sections describe the details of the navigation functions.
Chapters 6, 7 and 8 describe how to operate the AV functions. Please read these chapters when you use a disc in the built-in DVD drive or operate the Pioneer audio equipment connected to the navigation unit.
Please note that when you have decided what you want to do, you can find the page you need from the "**Table of Contents**".
If you want to check the meaning of each item displayed on the screen, you will find the necessary page from the "**Display Information**" at the end of the manual.

How to use this manual

For reasons of safety, it is particularly important that you fully understand your Navigation System before using it. Be sure to read Chapter 1 in particular.

1 **Basic Operation**

If you want to use the Navigation System immediately, please read this section. It will explain the basis of operating the system.
This section also describes the basic operations for playing a CD with the navigation unit.

2 **Menu and Map Display**

Describes how to display the menu screen, and the method of changing map mode or map scale.

3 **Setting a Route to Your Destination**

This section describes various ways of searching the destination, changing the route search conditions, and the route operation during route guidance.

4 **Editing the Navigation Utilities**

Describes convenient functions for navigation, including how to organize information on places you have visited.

5 **Customizing Your Navigation System**

The behavior of your Navigation System depends on a number of settings. If you need to change any of the initial settings (default settings), read the relevant section of this chapter.

6 **Using the AV Source (Built-in DVD Drive and Radio)**

Describes how to use a DVD video, CD, MP3 disc and the radio.

7 **Using the AV Source (Pioneer AV Equipments)**

When Pioneer audio equipment is connected to the navigation unit, that equipment can be operated from the navigation unit. This chapter describes the operation of the audio source that can be used when Pioneer audio equipment is connected.

8 **Customizing the Audio Source Setting**

Using the audio source, various settings are available to suit your audio-visual taste. This chapter describes how to change the settings.

9 **Operating Your Navigation System with Voice**

Describes navigation operations such as searching the destination and performing audio operations by voice.

Appendix

Read the appendix to learn more about your Navigation System and such information as the availability of after-care. Please see "**Display Information**" at the end of this manual for checking the details of each item on the menu.

Terminology

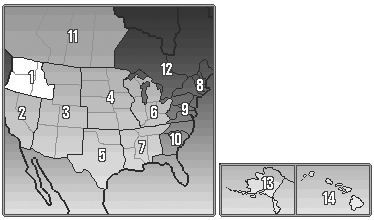
Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on your Navigation Unit are referred to as:
  e.g.) **POS** button, **NAVI MENU** button.
- Items in various menus or touch keys displayed on the screen are referred to like this:
  e.g.) "**Destination**", "**Settings**".
- Extra information, alternative use and other notes are presented like this:
  e.g.)
  ❒ After removing the disc from the slot, keep it in the case.
- The references are indicated like this:
  e.g.)
  ➲ Setting the Route Options ➞ Page 39

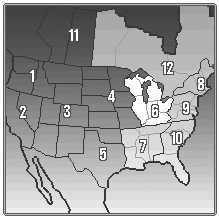
Map Discs for Navigation System

Configuration of data recorded on discs

The map for this navigation system is supplied on two discs: one for the west and the other for the east. Please set the disc to use according to your destination or current location.
The areas recorded on each disc are as follows:



West area disc



East area disc

❒ Removing the disc and inserting another disc causes the navigation system to automatically restart and reload the new route. (You cannot cancel this “Reroute” operation.)

Basic Operation

Flow from Startup to Termination

⚠ CAUTION

- **If the program is not installed, see page 97 and install the program.**

At first, please confirm the positions of the following features using the “Hardware Manual”.

- Disc loading slot
- **NAVI/AV** button
- **NAVI MENU** button

1 Start the engine.

After a little time, the navigation opening screen comes on for a few seconds. Then, a message screen is displayed.

❒ If the disc is not set, the message asking to insert the disc appears. After you set the disc correctly, your Navigation System starts up.

2 Insert the Pioneer DVD map disc to the disc loading slot.

3 Press the NAVI/AV button to switch the Navigation map screen.

Pressing the **NAVI/AV** button switches between the navigation map screen and the audio screen.

4 Check the details of the cautionary message and touch “OK”.

You can operate the Navigation System by touching keys displayed on the screen.
If the route is already set, it changes to route guidance mode. The map of your surroundings is displayed.

➲ How to read the current position screen → Page 29

➲ Time settings → Page 98

➲ Starting the operation with voice commands only → Page 58

❒ The text of touch keys which are not effective is indicated in gray.

❒ Be sure to touch the touch keys with a finger. Touch keys cannot be operated by a pen or similar object.

5 Press the NAVI MENU button.

Displays the main menu.

6 Searches the destination and gives route guidance.

➲ Specifying the address and searching the destination → Page 20

➲ Searching the destination by map → Page 33

➲ Other search methods → Chapter 3

7 Turn off the vehicle engine.

This Navigation System also turns off.

❒ Until the vicinity of the destination is reached, the set route will not be deleted even if the power is turned off.

Basic Navigation

The most frequently used function is the Address Search, in which the address is specified and the destination searched. This section describes how to use the **Address Search** and the basics of using the Navigation System. Also, the method of playing CDs is used as an example of switching to the audio source.

⚠ CAUTION

- **For safety reasons, you cannot use these basic navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking break.**

Basic flow of operation

1 **Insert the Pioneer DVD map disc to the disc loading slot.**

↓

2 **Press the NAVI MENU button to display the Main menu.**

↓

3 **Select "Destination" from the Main menu.**

↓

4 **Select the method of searching for your destination.**

↓

5 **Enter the information about your destination.**

↓

6 **Your Navigation System sets the route to your destination, and the map of your surroundings appears.**

↓

7 **After releasing the parking break, drive in accordance with the navigation information, subject of course to the important safety instructions noted on page 11-13.**

1 Press the NAVI MENU button to display the main menu.

2 Touch “Address Search”.
Selects the method for searching the destination.

- ➲ **Return Home** → Page 38
- ➲ **Go to** → Page 38
- ➲ **POI Search** → Page 35
- ➲ **Vicinity Search** → Page 36
- ➲ **Address Book** → Page 39
- ➲ **Destination History** → Page 39
- ➲ **Freeway Search** → Page 37
- ➲ **Telephone Search** → Page 38
- ➲ **Cancel Route**→ Page 43

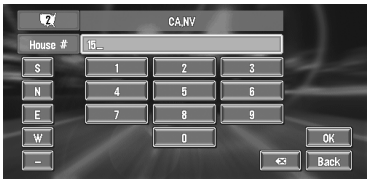
3 Touch “Zone code key”.
If the destination is in another zone, this changes the zone setting.

- ❒ Once the zone has been selected in the system settings, you only have to change zones when your destination is outside your existing zone.

Zone code key

4 Touch the zone code of the destination and touch “OK”.
Modifies the zone setting and returns you to the previous display.

5 Input the house number and touch “OK”.
Touch the characters you wish to input.



⌫ :
The input text is deleted letter by letter from the end of the text. Continuing to press deletes all of the text.

“Back” :
Returns you to previous screen.

- ❒ Also input a prefix to the house number.
- ❒ If the house number you have input is not found among subsequently selected “Street” or “City” data, a message appears saying that the address has not been found. In that case, try inputting the house number again.
- ❒ Touching “OK” with no input allows you to specify and search a street name or the name of the city or area first.

6 Input the street name.
Touch the letter you wish to input. If the next screen is not automatically displayed even though the street name is entered, try touching “**OK**”.

The input text.

The number of applicable candidates.

“City” :
Touch if you wish to first specify the destination town or area.

⌫ :
The input text is deleted letter by letter for the end of the text. Continuing to press deletes all of the text.

“Sym.” :
You can input text with marks such as “&”and “+”.
“0-9” :
You can input text with numbers.
“Back” :
Returns you to previous screen.

- ❒ For example, for “Early California Ct”, you can just enter part of the name, such as “California”.
- ❒ While entering characters, if there is only one possible character following the next, that character is automatically entered.
- ❒ When touching “**Back**” on the text input screen to return to the previous screen, you may not be able to input text. In such case, delete the letters entered in the text box.

Searching your destination after specifying the name of city or area

You can narrow down the searching candidates by initially specifying the name of city or area where your destination is located. Inputting the name of the town or area then selecting the destination town or area from the list returns you to the Street Name input screen. Now input the street name, select the street from the list, and proceed to step 9.

In the selected area, if you touch “**City**” without entering the name of city or area, you can check the list of the cities or areas, which you have searched in the past. (This item cannot be selected when searching for the first time with this system or when you have selected an area that you have never searched before.)

7 Touch the street from the list.

Scroll bar

Touching the ▲ or ▼ on the scroll bar scrolls you through the list and allows you to view the remaining items.

➲ Searching the destination by map → Page 33

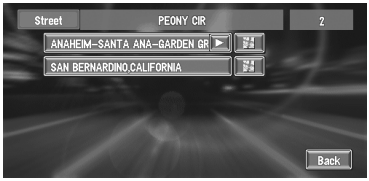
In the case of an item that cannot be displayed in a single line, touching the ▷ to the right of the item allows you to see the whole line.

- ❒ If only one location is found from the list, route calculation starts after pressing the item.

- Touching the ✚ specifies the selected street and streets intersecting it, allowing you to set an intersection as your destination. This is useful when you don’t know the house number of your destination or cannot input the house number of the specified street.
- Touching the ▦ displays a map of the place you have selected. (Candidate place names may appear in the list screen.)

8 Input the destination town or area.
If the list screen is displayed, proceed to step 9.

9 Touch the city or area where your destination is located.
Route calculation starts. When the route calculation is completed, the map of your surroundings appears. (The route is displayed in green.)



❒ If the selected street is very long, and passes through several cities or area, the screen for entering the name of the city or area appears.

If you did not input the house number in Step 5, the house number input screen comes up after the “Street” and “City” are determined. You should now input the house number (perform Step 5).

❒ If there is more than one place for the house number input, or if there is no such house number in that place, displays a list of a certain range. To start the route calculation, touch the range within the list you wish to specify as the destination.

❒ You can also see the destination on the map by touching the to the right of the list.

➲ Searching the destination by map ➞ Page 33

❒ If you press the **POS** button during route calculation, the calculation is canceled and the map display appears.

❒ When performing a destination search with the route already set, select whether to make the specified area your destination and search for a new route, or search for a route via that area.

➲ Adding way points to the route ➞ Page 44

➲ Once searched for, a location is automatically stored in the “**Destination History**” ➞ Page 46

10 Drive in accordance with the screen and voice information.

Your Navigation System gives you the following information with the timing adjusted to the speed of your vehicle:

- Distance to the next turning point
- Direction of travel
- Road number of the freeway
- Way point (If this is set)
- Your destination

➲ How to view the screen ➞ Page 29

➲ Searching for another route ➞ Page 43

➲ Canceling route guidance ➞ Page 43

❒ Touching the allows you to hear the information again.

❒ If you deviate from the route with the Guidance set to **Route View** or **Guide View** and enter a street not recorded on the disc, the screen changes to **Map View**. When you return to the route, returns to the original mode and resumes route guidance.

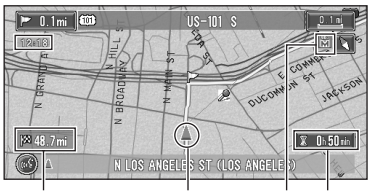
❒ If you stop at a gas station or a restaurant during the route guidance, your Navigation System remembers your destination and route Information. When you start the engine and get back on the road, the route guidance resumes.

❒ Once the route is entered the map data for a certain distance is stored in the navigation unit. Thus, route guidance can take place even when the map disc is removed.

How to view Map View screen

This section describes only the items that are displayed on the Map View screen.

➲ Details of the map screen ➞ Page 29



(1) Current location

(2) Distance to the destination (or distance to way point)

(3) Estimated time of arrival (or travel time to your destination)

(4) Memory navi indicator

Flashing green indicates that the data is being read. When the data reading has completed, this indicator disappears from the screen.

➲ Memory navi mode ➞ Page 98

Memory navi mode

While the map disc is inserted, you can store the data on the map disc into the memory of the navigation unit. If the map disc is removed from the navigation unit after the data is stored, navigation is performed using the data in the memory (memory navi mode). In the memory navi mode, you can play a music CD or DVD video on the navigation unit while navigation is taking place. The operation is automatically switched to the memory navi mode when the map disc is removed from the navigation unit.

Navigation in the memory navi mode

During the memory navi mode, navigation is performed only using the data read into the memory. Therefore, some functions are restricted compared with navigation using the map disc (DVD navi mode). These functions buttons, which cannot be used in the memory navi mode, are indicated in dark gray. (For details, see page 25.) If you want to use these functions, please insert the map disc again. In addition, you may need to insert the map disc and store new data in the memory during navigation operation, such as when the destination is far away. The memory navi mode uses the following map data to perform navigation.

Memory navi indicator

When new route guidance starts, the route data from the map disc is read into the memory of the navigation unit. The status of the memory navi mode is indicated by the following icons on the top left of the map screen.

(green flashes): Reading the data
(green is lit): Operated in memory navi mode
(red is lit): Operated in memory navi mode, but the distance for guidance is 12.5 mi or less.

❒ Where the distance for navigation guidance is unknown, the icon flashes red. In that case, the guidance may suddenly fail. It is therefore recommended to reinsert the map disc.

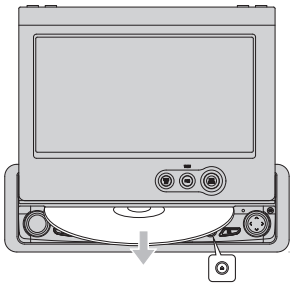
When disappears, memory navi mode is ready. You can now remove the map disc and use the memory navi mode function.

How to listen to a CD

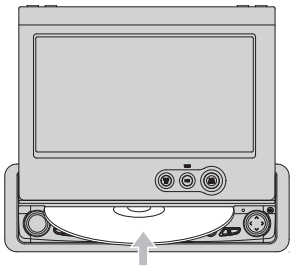
You can listen to a CD by removing the map disc from the navigation unit.

➲ About Memory Navigation → “Memory Navi Mode” on page 24. (For details, see page 98.)

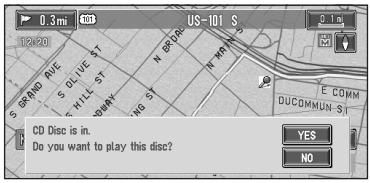
1 Press the EJECT button to remove the map disc.



2 Insert the CD to the disc loading slot.



3 Touch “Yes”.



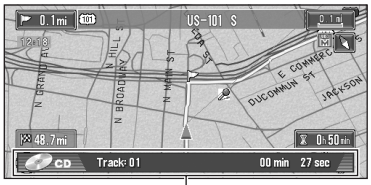
The audio CD set in the navigation unit is played.

❒ **DISC AUTO** is off in the default setting.

➲ **DISC AUTO** → Page 87

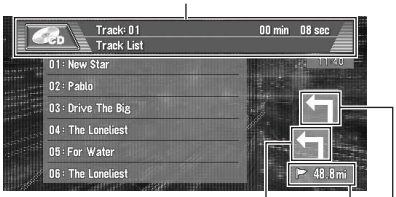
4 Press the NAVI/AV button to switch the Audio screen.

Pressing the **NAVI/AV** button switches between the navigation map screen and the audio screen.



Information of Audio

Information of Audio source being played



Current direction of travel

Distance to the guidance point

Next direction of travel

5 Touch the screen to display the touch keys.

The track list and the touch keys are displayed.

6 Touch the track you want to listen to in the track list.

The selected track is played.

Information of track being played

You can also skip backward or forward to another track by moving the joystick left or right.

You can also operate with ⏮ or ⏭ of the touch keys.

7 To perform fast forward or reverse, touch → then keep touching ◀◀ or ▶▶.

You can also perform fast reverse/fast forward by holding the joystick left or right.

Stopping playback

1 Touch ■.

When you stop CD playback by touching ■, that location on the disc is memorized enabling playback from that point when you play the disc again.

To play back the disc again, touch ▶/❚❚.

For details on the functions, which can be used in the audio source, please see Chapters 6, 7 and 8.

The buttons

The status of the buttons appearing on the screen is indicated by their color.

Depending on the function the navigation is performing, you can touch some buttons, while other buttons are not available.

Blue touch key:
The button is operable.

Dark gray touch key:
The function is not available (e.g., operation is prohibited while driving).

Light gray touch key:
The function is not available during memory navi mode. Or, the function is not available for areas not stored on the disc.
Touching this button activates a message indicating that the function is not available.

Menu and Map Display

This section describes the basic operations, including how to display the main menu and how to use the shortcut menu and the map screen.

How to Use Menu Screens

The basic operation of the navigation is performed by using menus.
There are two types of menu: the “Main menu” and the “Shortcut menu”.

- ❒ The functions that cannot be used based on certain conditions are indicated in gray.
- ❒ The functions that cannot be used during the memory navi mode are indicated in dark gray. If you want to use such functions, insert the map disc.

Main menu

You use this menu for basic operation of your Navigation System.

1 With the map displayed, press the NAVI MENU button.

2 To change to the menu you want to use, touch the name of the menu displayed at the top of the screen.
The main menu is divided into four: “**Destination**”, “**Information**”, “**Route Options**”, and “**Settings**”.

3 If you want to return to the map, press the POS (or NAVI MENU) button.

Destination menu

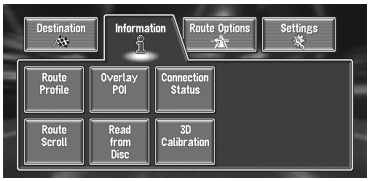
Select the destination search method. Also the route has set can be canceled from this menu.

➲ Specifying the address and searching the destination ➞ Page 20

➲ Searching the destination by map ➞ Page 33

➲ Other search methods ➞ Chapter 3

Information menu



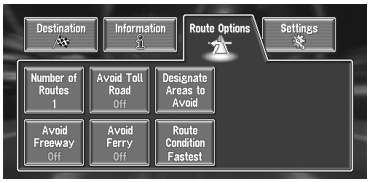
Used to check the route you set or check the navigation status.

- ❒ You can use “**Route Profile**” and “**Route Scroll**” only when a route has been entered.

➲ Checking the set route ➞ Page 41

➲ Checking the navigation status ➞ Page 52

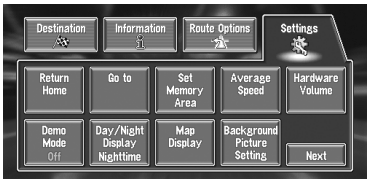
Route Options menu



Used to specify the conditions for setting the route to the destination.

➲ Setting the Route Options ➞ Page 39

Settings menu



Set the navigation functions so they can be used easily.

➲ Settings menu ➞ Chapter 5

❒ If the contents of the menu are not fully displayed on the screen, touch "**Next**" to view the remaining contents.

Shortcut menu

Shortcuts allow you to perform various tasks, such as route calculation for the location indicated by the cross pointer, or registering a location in the **Address Book**, faster than using the Main menu.

1 When the map is displayed, briefly touch any part of the map.

If you continue to touch the map, it will start scrolling.

➲ Moving the map to view the part you want to see → Page 32

:Destination

Displayed when the map is scrolled. Set the route to the place specified with the cross pointer.

➲ Searching the destination by map → Page 33

:Chg.Route

Can be selected only during route guidance. You can add changes to the route in the route guidance.

➲ Searching another route → Page 43
➲ Detour for a specified distance → Page 43
➲ Checking the route → Page 41
➲ Canceling the route guidance → Page 43
➲ Skipping a way point → Page 44

:Registration

Registering the location indicated by the cross pointer to **Address Book**.

❒ Touching "**Registration**" and selecting "**Save**" allows you to register the location to Address Book.

➲ Registering a place → Page 46

:Vicinity Search

You select a location with the cross pointer. Nearby POIs (Points Of Interest) will also be found.

➲ Searching the facilities surrounding a certain place → Page 36

:Overlay POI

Displays on the map the mark for surrounding facilities (POI).

➲ Viewing POI information → Page 33

How to Use the Map

Most of the information provided by your Navigation System can be seen on the map. You need to get to know how the information appears on the map.

Switching the current position screen display mode

This section describes how to display the current position screen and change the map display mode.

There are four types of map display and three additional view modes.

- **Map View**
- **Driver's View**
- **Guide View** (during route guidance only)
- **Route View** (during route guidance only)
- **AV Status**
- **Vehicle Dynamics**
- **Rear View** (Only possible when the "**CAMERA**" is set to "**ON**")

1 Press the POS button to display a map of the area around your current position.

2 Press the POS button again.

3 Touch the mode name or press the POS button to select the mode you want to display.

❒ If the mode is selected by pressing the **POS** button, the screen automatically switches to the selected map display mode after 4 seconds.

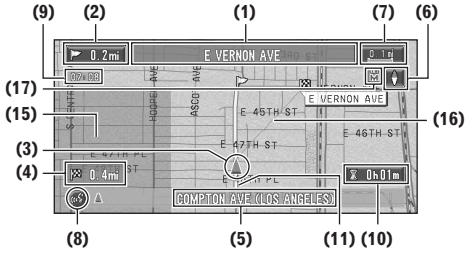
How to view the map of the current location

⚠ CAUTION

- **In Driver's View, a small gauge with no scale is depicted, but is not intended to be used as a speedometer. Use the actual speedometer of your vehicle to confirm speed.**

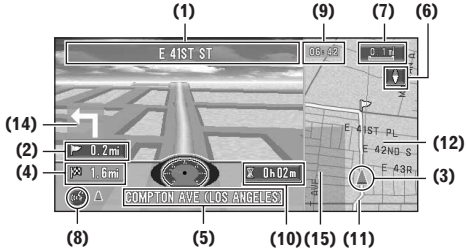
Map View

Displays standard map.



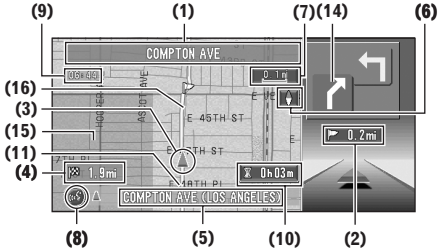
Driver's View

The map from the driver's viewpoint is shown.



Guide View

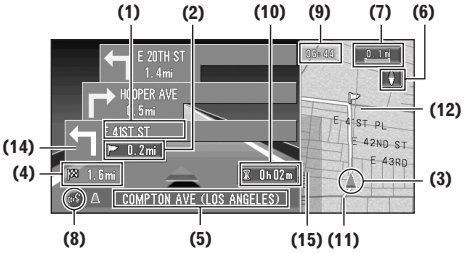
The map of your surroundings is shown on the left, and an arrow indicating the direction of travel is shown on the right.



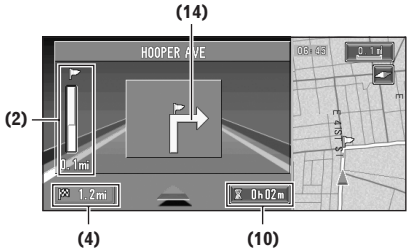
Route View

Displays the name of the street you will next travel along and an arrow indicating the direction of travel.

Normal condition

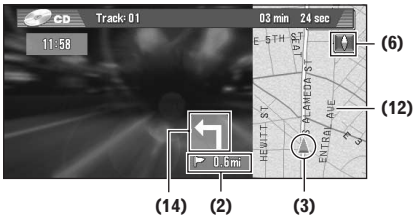


When approaching an intersection (When "Close-up of Junction" is off)



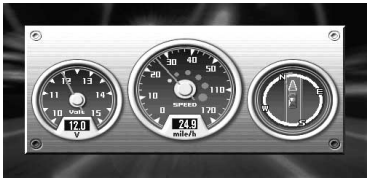
AV Status

Information on the audio source currently being played is indicated on the left-hand side of the screen, while the map of your surroundings is indicated on the right.



Vehicle Dynamics Display

Indicates the status of your vehicle.

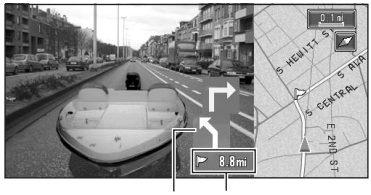


- You can change the items indicated to the meters on the left and right.
- In the **Vehicle Dynamics** Display mode, the speedometer display may show a different speed than your vehicle's actual speedometer, because your unit measures speed in a different way.
- **Vehicle Dynamics** cannot be displayed if sensor initialization is not complete.

➲ Setting the **Vehicle Dynamics** Display ➞ Page 53

Rear View

Rear view image is displayed on the left-hand side of the screen, while the map of your surroundings is indicated on the right.



❒ If the "**CAMERA**" is set to "**OFF**", the rear view image is not displayed. Please set it to "**ON**".

➲ Camera setting ➞ Page 89

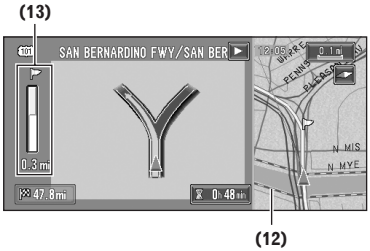
❒ When using a camera set to turn OFF/ON in conjunction with the reversing signal, no camera images will be displayed in rear view mode if the camera is connected normally.

❒ If the camera is set always ON, it can display images in rear view mode when the vehicle is moving forward. In that case, you should ask the camera maker or dealer whether the camera's functions or longevity would be affected.

❒ **Rear View** can be displayed at all times (e.g. when monitoring an attached trailer, etc.) as a split screen where map information is partially displayed. Please beware that in this setting, camera image is not resized to fit, but that a portion of what is seen by the camera is not viewable.

Enlarged map of the intersection

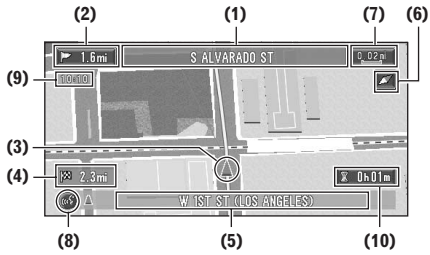
When "**Close-up of Junction**" in the Settings menu is "**On**", an enlarged map of the junction appears. If driving on freeway, the special guide illustration is displayed.



❒ When set to **Driver's View** and **Vehicle Dynamics**, the system cannot be changed to an enlarged intersection map.

City Map

When driving in a city, the detailed city map is indicated if the map scale is set to 0.05 mi (50 m) or lower (only those cities whose detailed city maps are registered in the map disc).



❒ Detailed city map is not displayed during the memory navi mode.

Display items

Guidance point*
The next guidance point (next turning point, etc.) is shown by a yellow flag.

Destination*
The checker-flag indicates your destination.

(1) Name of the next street to be used*

(2) Distance to the guidance point*
Touch to access the next information.

(3) Current location
The current location of your vehicle. The tip of the triangular mark indicates your heading and the display moves automatically as you drive.

(4) Distance to the destination (or distance to way point)*
If way points are set, the display changes with each touch.

(5) Name of the street your vehicle is traveling along (or City Name, etc.)

(6) Compass
The red arrow shows North. Each touch changes the map's display direction. (North is UP or Heading Up.)

(7) Map scale
The scale of the map is indicated at distance. In **Route View** and **Driver's View**, **AV Status**, **Rear View**, it shows the scale of the map displayed on the right-hand side of the screen. Touch to change the map's scale.

➲ Changing the map's scale ➞ Page 32

(8) VOICE icon
Touch to change to voice recognition mode.

- ❒ This is displayed only when the microphone for voice recognition is connected.
- ➲ The voice operation of the navigation system ➞ Chapter 9

(9) Current time

(10) Estimated time of arrival (or travel time to your destination)*
The display changes with each touch.

(11) Tracking mark
The tracking mark shows the route your vehicle has traveled.

- ➲ Select the tracking setting ➞ Page 56

(12) Map of your surroundings (Side map)
Touching this takes you to the map scroll screen.

(13) Distance to an intersection*
Displayed on the enlarged intersection map. The green bar gets shorter as your vehicle approaches an intersection.

(14) Next direction of travel*

(15) Area to Avoid*

- ➲ About detour area ➞ Page 49

(16) Direction line
The direction towards the location set in (4) is indicated with a straight line.

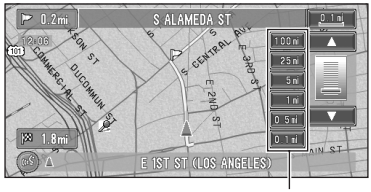
(17) Memory navi indicator

- ➲ About memory navi indicator ➞ Page 100
- ❒ Information with the mark (*) appears only when the route is set.
- ❒ Depending on the conditions and settings, some items may not be displayed.

Changing the scale of the map

Touching the “Map scale” key displayed on the upper right of the screen displays the scale gauge and “Map scale” key. Directly touching the “Map scale” key changes the map to the selected scale. Touching △ or ▽ on the scale gauge allows you to specify the scale in greater detail within a range of 25 yards - 1000 miles (25 meters - 2000 kilometers).

- ❒ Selection of the scales is limited during the memory navi mode.



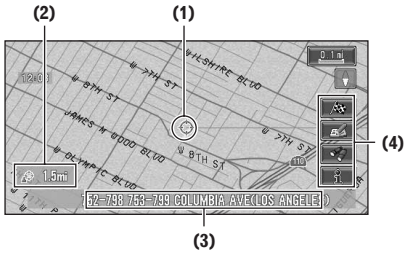
Direct scale key

- ❒ The icon of a registered location is indicated when the map scale is 10 miles (20 km) or lower.
- ❒ POI icon is indicated when the map scale is 0.75 mile (1 km) or lower.
- ❒ The Direct scale key may not appear depending on the map display mode.

Moving the map to the location you want to see

If you touch the display briefly, the shortcut menu appears.
Touching anywhere on the map for at least 2 seconds changes the map to Scroll mode and the map begins scrolling in the direction you touched. The scrolling stops when you remove your finger from the screen. At this time, the cross pointer appears at the center of the screen. Also a line connecting between the current location and cross pointer appears.
Pressing the **POS** button returns you to the map of your surroundings.

- ❒ Touch the area close to the center of the screen to scroll slowly; touch near the sides of the screen to scroll through quickly.



(1) Scroll location
The position of cross pointer shows the location selected on the current map.

(2) Distance from the current location
Shows the distance in a straight line between the location indicated by the cross pointer and your current location.

(3) The street name, city name, area name and other information for this place.
(The case of a map scale of 0.25 mile (200 m) or lower.)
Touching the ▷ on the right displays hidden text.

➲ Displaying information on the specified location → Page 33

(4) Shortcut menu

➲ How to view shortcut menu → Page 28

Viewing the information of a specified location

An icon appears at registered places (home location, specific places, address book entries) and places where there is a POI icon. Place the cross pointer over the icon to view detailed information.

1 Scroll the map and move the cross pointer to the icon you want to view.

2 Touch .

Information for a specified location appears. The information shown varies according to the location. (There may be no information for that location.)

➲ Registering places → Page 45
➲ Displaying facilities (POI) mark on the map → Page 36

3 Touch "Back".
You are returned to the previous display.

❒ In the memory navi mode, you can only see detailed information for registered points (when available).

Finding a destination on the map

If you search the location you want to visit by scrolling the map, and touch in the Shortcut menu, you can specify your destination on the map.

1 Press the POS button to access the map screen.

2 Touch the map for at least 2 seconds.
The map display changes to Scroll mode.

3 Scroll the map and move the cross pointer to the place you want to make your destination.

➲ Moving the map to view the part you want to see → Page 32

4 Touch .

❒ If you press the **POS** button during route calculation, the calculation is canceled and the map display appears.

When the appears on the right of the list

You can also set a destination by touching the to the right of the list. Touch "**OK**" to confirm. The location pointed by the cross pointer will be set as a destination.

Alternative option:

Scroll :
The map display changes to the map with Shortcut menu.
If you touch anywhere on the map, the map display changes to Scroll mode.

➲ Shortcut menu → Page 28

Setting a Route to Your Destination

⚠ CAUTION

- **For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking break before setting your route.**

❒ Some information on traffic regulations by days or time depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes the location. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck/lorry or other delivery vehicles. When driving your vehicle, follow the actual traffic regulations.

❒ If you press the **POS** button during route calculation, the calculation is canceled and the map display appears.

❒ When the map disc is inserted, the reroute is done by force. (This rerouting cannot be canceled.)

Finding Your Destination by Selecting the Type of Facility

Information about various facilities (Points Of Interest - POI), such as gas stations, amusement parks or restaurants is available. By selecting the category (or entering the POI Name), you can search for a Point Of Interest.

❒ You can also narrow down the search range by initially specifying the name of the city or area where your destination is located.

Searching for Points of Interest (POI)

1 Touch “Destination” in the Main menu, and then touch “POI Search”.

2 Touch the zone code key of the destination and touch “OK”.

➲ Selecting the zone where you want to search ➞ Page 21

3 Touch “Category”.

“Name” :
Touch if you wish to first specify the POI Name.
“City” :
Touch if you wish to first specify the destination town or area.

4 Touch the desired category.
POI’s are divided into several categories.

If the category is not sub-divided into more detailed categories, the list will not be displayed. Proceed to Step 6.

5 Touch the subcategory.

6 Input the name of the POI.

If the list does not automatically appear when the name of the POI has been entered, try touching "**OK**".

"City" :

First, touch to specify the destination town or area.

7 Touch POI for your destination.

- ❒ Touching the displays a map of the surroundings of the selected POI.
- ➲ Searching the destination by map → Page 33
- ❒ If the selected POI is the name of a chain of outlets and consequently the same store name applies to different locations (the number of outlets appears next to the chain's name), touch the name of the POI to display a list of those POIs and touch the particular POI that is your destination.

Finding a POI in your surroundings

You can search for Points Of Interest in your surroundings on the map. Use it to find a POI to visit during a journey.

1 Touch "Destination" in the Main menu, and then touch "Vicinity Search".

The list of Points Of Interest categories appears.

2 Touch the category.

The selected category will have a red check mark.

OK:

Starts searching

Back:

Returns to the previous screen

- ❒ If you want to search with more detailed categories, touch . When the subcategory list appears, touch the item and touch "**Back**". When only a few types of the detailed categories are selected, blue check marks will appear.
- ❒ You can select the detail category for up to 100 items.

3 Touch POI.

Names of POIs and their distance from your current location appear. They are listed in nearest-to-furthest order. To the left of each item is an icon indicating the category.

Distance to the facility

- ❒ When you touch , the POIs around the specified location are shown on a map.
- ➲ Searching the destination by map → Page 33
- ❒ Searching range is approximately 10 miles (16 km) square from the current location.

Searching the facilities around the cross pointer

1 Scroll the map and move the cross pointer to the place you want to search POI.

2 Touch .

See Step 2 of "Finding a POI in your surroundings" for the following operations.

- ➲ Finding a POI in your surroundings → Page 36
- ❒ The distance indicated in the search result is the distance from the cross pointer to the facility.
- ❒ "**Vicinity Search**" in the Main menu searches your surroundings. On the other hand, in the case of in the Shortcut menu (→ Page 28), the area around the cross pointer will be searched.

Displaying certain points of interest on the map

Selected Points Of Interest (POI) in a certain category can be shown on the map, and you can check the location on the display while driving.

1 Touch any part of the map screen.
The Shortcut menu appears.

2 Touch .
The list of POI categories appears.

3 Touch the category you want to display.
The selected item is marked. If you want to select other categories, repeat this step.

- ❒ If you want to search with more detailed categories, touch . When the subcategory list appears, touch the item you want to display and touch "**Back**".
- ❒ You can select the detail category up to 100 items.

4 Touch "Back".
POI's in the selected category appear on the map.

- ➲ Searching the destination by map → Page 33
- ➲ Viewing the information of POI → Page 33
- ❒ When some sub-categories are selected, the corresponding category is marked blue. When all the sub-categories within a category are selected, that category is marked red.

Setting an Entrance or Exit of a Freeway as Your Destination

You can set the entrance or exit of a freeway as your destination.

1 Touch "Destination" in the Main menu, and then touch "Freeway Search".
The display for entering the name of the freeway appears.

2 Touch the zone code key of the destination and touch "OK".

3 Enter the name of the freeway and touch "OK".
The list of freeways matching the name appears.

4 Touch the freeway.
The display for selecting your destination to the entrance or to the exit of the freeway appears.

5 Touch "Entrance" or "Exit".
The list of entrances to, or exits from, the selected freeway appears.

6 Touch your destination.

- ❒ You can also see the destination by touching the on the right of the list.
- ➲ Searching the destination by map → Page 33

Searching for Your Destination by Specifying the Telephone Number

If you know the telephone number of your destination, you can quickly search for your destination by specifying the telephone number.

1 Touch "Destination" in the Main menu, and then touch "Telephone Search".
The telephone number entry screen appears.

2 Input a telephone number.

❒ If there is more than one place for the number input, a list of those places is displayed. Touch the item you want in the list and proceed to step 3.

3 If the displayed place is satisfactory, touch "OK".
Touching "**Scroll**" changes the destination.

➲ Searching the destination by map ➞ Page 33

Route Calculation to Your Home Location or to Your Favorite Location

If your home location is registered, the route home can be calculated by a single touch of the touch key from the Main menu. Also, you can register one location, such as your workplace, as your favorite location, and the route is calculated in a similar way.

1 Touch "Destination" in the Main menu, and then touch "Return Home" or "Go to".

➲ "Registering your home and your favorite location" ➞ Page 45

Selecting Destination from the Destination History and Address Book

Any place that has been searched before is stored in the "**Destination History**". Places that you have registered manually, such as your home, are stored in the "**Address Book**". Simply select the place you want to go to from the list and a route to that place will be calculated.

1 Touch "Destination" in the Main menu, and then touch "Address Book" or "Destination History".

2 Touch your destination name.

Route calculation starts.

- ➲ For information on the **Address Book** → Chapter 4
- ➲ For information on the **Destination History** → Chapter 4
- ❒ You can also see the destination by touching the on the right of the list.
- ➲ Searching the destination by map → Page 33

Modifying the Route Calculation Conditions

You can change the route calculation conditions using the Route Options menu. The following description features an example of changing the number of the route to be searched.

1 Touch "Route Options" in the Main menu.
The Route Options menu appears.

2 Touch "Number of Routes".
The content currently set appears under the name of the item. Each time you touch the item, the setting changes. Repeatedly touch the item until the value you want to set appears.

Items that users can change

This section describes the details of the setting for each menu. Settings marked with an asterisk (*) show that they are default or factory settings.

Number of Routes

This setting controls whether the system should calculate only one route, or several routes.

1*:
Only one route judged as being optimum by your Navigation System is calculated.

Multiple :
Several route options are calculated (maximum 6 routes).

Avoid Toll Road

This setting controls whether or not toll roads should be taken into account.

On :
Calculate a route that avoids toll roads.

Off* :
Calculate a route that may include toll roads.

Designate Areas to Avoid

- ➲ About Areas to Avoid → Page 49

Avoid Freeway

This setting controls whether or not freeways may be included in the road calculation. (A route using freeway may be calculated in some cases, such as when setting your destination far away.)

On :

Calculate a route that avoids freeways.

Off* :

Calculate a route that may include freeways.

Avoid Ferry

This setting controls whether or not ferry crossings should be taken into account.

On :

Calculate a route that avoids ferries.

Off* :

Calculate a route that may include ferries.

Route Condition

This setting controls whether the fastest or the shortest route should be calculated.

Fastest* :

Calculate a route with the shortest travel time to your destination as a priority.

Shortest :

Calculate a route with the shortest distance to your destination as a priority.

Perform the route calculation of the several route options, and select one

You can get route calculations of several route options. After route options are calculated, select the one you want.

1 Set the "Number of Routes" to "Multiple".

➲ Changing the search conditions ➞ Page 39

2 Search your destination and set the route.

Calculated routes are shown in different colors (from two to six routes).

3 Touch "Next" to change the displayed route.

The following information is displayed on this screen:

(1)Route calculation condition

Displaying the conditions set by the Route Options menu by icon.

- Use/avoid freeway
- Use/avoid toll road
- Use/avoid ferry

Displaying impracticability of fulfilling the conditions by icon.

- Pass through Area to Avoid
- Use toll road against the setting "**Avoid Toll Road**" is "**On**".

(2)Distance to your destination

(3)Travel time to your destination

❒ The "**Avoid Freeway**" setting may not be reflected, depending on the distance to the destination.

❒ You can see other places while displaying a candidate route by scrolling the map. Touching "**Next**" moves the next candidate route to the center and indicates the map.

4 Touch "Information" to check the information on the selected route.

You can also check details of the roads along the selected route. (If you touch "**Back**", you can return to the previous display.)

➲ "**Route Scroll**" → Page 41 (Step 3 and 4)

➲ "**Route Profile**" → Page 42 (Step 3 and 4)

❒ After the route is calculated, it may take some time until the detailed route information (Route Profile) can be confirmed.

5 Touch "OK".

The route you selected is accepted, and the map of your surroundings appears. When you start driving, the route guidance begins.

❒ If the above operations are not performed within 30 seconds after the route calculation is completed and you have already started your vehicle, the route selected at the time is automatically chosen.

Checking the Set Route

You can check information about the route between your current location and your destination.

You can select two methods: checking the passing streets with a list; and checking the shape of the route by scrolling the map along the route.

Checking the set route with the map

1 Touch the map screen.

The Shortcut menu appears.

2 Touch .

The Route/Detour menu appears.

3 Touch "Route Scroll".

The screen to select the point to start scrolling appears.

4 Touch the point to start scrolling.

You can select the following items:

(1) Starting Point

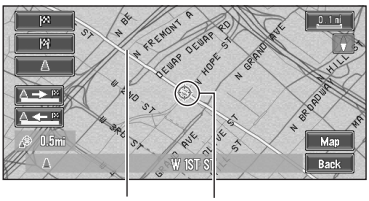
(2) Way Point (If this is set)

(3) Destination

❒ If you have selected "**Way Point**", a list of the way points on the route is displayed. Touch the place you want to start scrolling from and proceed to step 5.

5 Touch ◀ or ▶ to scroll the map.

To continue scrolling after you remove your finger, touch and hold ◀ or ▶. If necessary, the scale of the map can be changed.



Current Route **Cross Pointer**

You can select the following items:

Map :

The scroll screen is displayed.

➲ Searching the destination by map ➞ Page 33

6 Touch “Back”.

You can return to the previous display.

Checking the set route with text

This function is not available if your vehicle has deviated from the set route.

❒ When **Route Profile** is selected during the memory navi mode, the information up to the location in which the route is in the memory is displayed.

1 Touch the map screen.

The Shortcut menu appears.

2 Touch ☆.

The Route/Detour menu appears.

3 Touch “Route Profile”.

4 Check the contents on the display.

As necessary, scroll the list.

Name of the streets you are driving through

Driving distance

5 Touch “Back”.

You can return to the previous display.

❒ When a long distance route is calculated, your Navigation System may not be able to list all the roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Checking the set route from the Information menu

You can also check the information about the set route from the Information menu.

❒ When **Route Profile** is selected during the memory navi mode, the information up to the location in which the route is in the memory is displayed.

1 After touching “Information” in the main menu, touch “Route Profile” or “Route Scroll”.

2 Check the contents on the display.

➲ “**Route Scroll**” ➞ Page 41 (Step 3 and 4)

➲ “**Route Profile**” ➞ Page 42 (Step 3 and 4)

3 Touch “Back”.

You can return to the previous display.

Recalculating the Route to Your Destination

You can recalculate the route to avoid a traffic jam or road works ahead. You can set the length of the area, and avoid just that area, or you can even search a new route from the current location to your destination. (On the map screen during route guidance, try the following operations.)

1 Touch the map screen.
The Shortcut menu appears.

2 Touch .
The Route/Detour menu appears.

3 Touch "Reroute" or the distance from the list.

After the route is calculated, the map screen shows your surroundings and route guidance is resumed.
On this display, you can select the following items:
Reroute :
The route from the current position to your destination is recalculated.
The distance of the detour (1-50 mile/km) :
Searches detours of a specified distance in the route ahead of your current position.

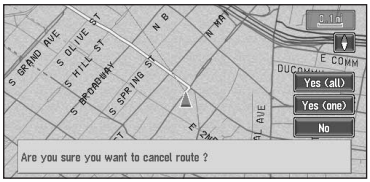
➲ For details of switching the display between "**mile**"(miles)" and "**km**". "**KM/Mile Setting**" → Page 57

Canceling the Route Guidance

If you no longer need to travel to your destination or if you want to change your destination, follow the steps below to cancel the route guidance.

1 Touch "Destination" in the Main menu, then touch "Cancel Route".
The message confirming whether to cancel the current route appears.

2 Touch "Yes (all)".



The current route is deleted, and a map of your surroundings reappears.
On this screen, you can also select the following items:
Yes (one) :
Route is recalculated by canceling the selected way point.
No :
Returns to the previous display without deleting the route.

❒ You can also cancel the route using the **Ch.Route** in the shortcut menu.

Adding Way Points to the Current Route

You can select way points (locations you want to visit on the way to your destination) and you can recalculate the route to pass through these locations.

Adding a way point

You can add up to five way points. This is achieved as follows :

1 Specify the location you want to visit.
Specify a way point in the same way as specifying a destination.
At completion of the location search, a message is displayed asking whether or not to set that specified location as the destination, or as a pass-through location.

2 Touch "Way Point".

3 Confirm the contents of the list, and touch "Done".

Route calculation with the specified location as a way point starts when you touch "**Done**".
On this display, you can select the following items:

Add :
Return to Destination menu and add way points (you can add up to five way points).

Delete :
You can delete way points from the list.

Sort :
You can sort your destination and way points. The system will put the nearest point (distance in a straight line) from the current location to way point1, and sort the other points (including your destination) in order of distance from way point1.

Original :
You can return the way points and destination to their original order.

Skipping a way point

If the points are set, the next way point along the route can be skipped.

1 Touch the map screen.
The Shortcut menu appears.

2 Touch .
The Route/Detour menu appears.

3 Touch "Skip Way Point".
A message asking whether you want to skip the next way point appears.

4 Touch "Yes".
A new route to your destination through all the remaining way points, except for the skipped way point, is calculated.

Deleting a way point from the route

If you no longer need to pass through a way point you have not yet reached, you can delete that place from the list of way points and calculate a new route.

1 Touch "Destination" in the Main menu, then touch "Cancel Route".
A message asking whether you want to cancel the route appears.

2 Touch "Yes (one)".

3 Touch the way point you want to delete.

❒ If you want to delete other way points, touch "**Delete**" and repeat Steps 3 above.

4 Touch "Done".
A new route to your destination via the remaining way points is calculated.

❒ You can also cancel the route using the **Ch.Route** in the shortcut menu.

Editing the Navigation Utilities

⚠ CAUTION

- **For safety reasons, these functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking break before setting your route.**

Editing Registered Locations

The **Address Book** can store up to 300 registered locations. These can include home location, favorite places, and destinations you have already registered. This registered location information can also be modified. Also, routes to registered locations can be calculated by touch screen. Registering places you visit frequently saves your time and effort.

❒ You can register up to 100 entries for voice operation (when available).

Registering your home and your favorite location

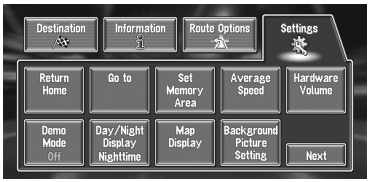
Of the 300 registered locations that can be stored, home location and favorite locations can be stored separately in the **Address Book**. Registering your favorite location for the first time is described here. You can change the registered information later. You might find it useful to register your workplace or a relative's home as your favorite location.

Map icons:

:
Home location icon

:
Favorite location icon

1 Touch "Settings" in the Main menu, then touch "Go to".
When registering your home location, touch "**Return Home**".



You can select a method of location search on the display.

❒ The items already registered under "**Return Home**" or "**Go to**" can be modified.

2 Search for a location to register.

➲ Information on searching locations to register ➞ Chapter 3

3 Point the cross pointer to the location you want to register and touch "OK".

4 Touch "Save".
Completes the registration.

❒ If you want to stop registration, touch "**Back**".

❒ Items registered under "**Go to**" can be edited and used for voice recognition.

➲ "Editing a location's information" ➞ Page 46

Registering a previous location in the Address Book

Once a destination or way point is searched, it is automatically retained and stored in the **Destination History**. If a search is canceled while still in progress, only the places where the map was displayed and scrolled through or places where the short-cut menu was displayed are retained and stored. Note that after 100 places are stored, new places are automatically overwritten on top of old ones, in oldest to most recent order. Therefore, to ensure that certain places are kept and not overwritten, be sure to register them in the **Address Book**.

1 Touch “Destination” in the Main menu, then touch “Destination History”.

2 Touch on the right-hand side of the place you want to register in the Address Book.

: That place can be registered or deleted.

: The map of that place can be displayed.

➲ Searching the destination by map ➞ Page 33

3 Touch “Registration”.

4 Touch “Save”.

Registration is now complete.

❒ If you want to stop registration, touch “**Back**”.

➲ “Editing a location’s information” ➞ Page 46

➲ in the Shortcut menu ➞ Page 28

Editing a location’s information

In the Address Book menu, touching the on the right-hand side of the place displays the Address Book Operate menu.
To edit the information about the location:

1 Touch “Destination” in the Main menu, then touch “Address Book”.

2 Touch on the right-hand side of the place whose information you want to edit.

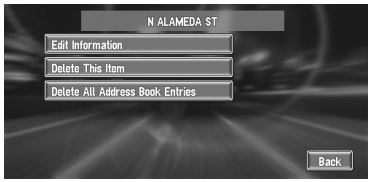
: The information related to that place can be edited.

: The map of that place can be displayed.

➲ Searching the destination by map ➞ Page 33

: Displayed on the left-hand side of places that can be searched by voice command.

3 Touch “Edit Information”.



The Address Information menu appears. Refer to the item corresponding to the subsequent operation. After finishing the operation, the Address Book menu appears. You can continue to edit other information items if necessary.

1. **Name**
   The name can be used as a command for voice operation.
2. **Address**
   The address is registered when the search was made for the first time. (Not editable.)
3. **Phone number**
   You can search by registered telephone number.
4. **Pictograph**
   The symbol displayed on the map.
5. **Sound**
   The selected operating sound is played.
6. **Modify Location**
   You can change the registered location by scrolling the map.

❒ Apart from the Address, these items can be edited freely.

Changing a name

1 Touch “Edit Name” and touch “Yes”.
The message confirming whether or not to register the entered name as voice command is displayed.

Alternative option :
No :
When not registering a name as a voice command, select “**No**”.

2 Enter a new name; touch “OK”.
The name of the current location appears in the text box. Delete the current name, and enter a new name between 6 and 23 characters long. (If you selected “**No**” in Step 1, you can enter a new name between 1 and 23 characters long.)

3 If the pronunciation is correct, touch “Yes”.

The details you set are registered, and the Address Book menu appears.
Alternative options :
No :
Select to return to the display for entering characters.
Repeat :
You can reconfirm the pronunciation of the name you entered.

❒ When you select “**Yes**”, is shown on the left side of the location name displayed in the Address Book menu. This mark indicates that this name can be used as a voice command during voice operation.

❒ You cannot change the name of your home.

❒ During voice operation, you can get a route calculated by saying the registered name.

➲ Information on voice operation ➞ Chapter 9

Entering or changing a phone number

1 Touch “Edit Phone Number”.

2 Input a phone number; touch “OK”.
The Address Information menu appears.

❒ To change a registered phone number, delete the existing number and then enter a new one.

Selecting a pictograph to appear on the map

1 Touch “Select Image”.

2 Touch the Pictograph to appear on the map.
The Address Information menu appears.

❒ You cannot change the mark of your home or of your favorite location.

Selecting sound

1 Touch "Select Sound".

2 Select the sound.
The Address Information menu appears.
If you want to hear the operating sound, touch .

Modify the Location

➲ Changing the position of locations ➞ Page 48

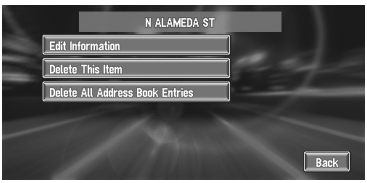
Deleting Address Book or Destination History Information

Items registered in the **Address Book** or **Destination History** can be deleted. All entries of the data in the **Address Book** or **Destination History** can be deleted at once.

1 Touch "Destination" in the Main menu, then touch "Address Book".
To delete items in the **Destination History**, touch "**Destination History**".

2 Touch on the right-hand side of the place you want to delete.

3 Select the deletion method.



A message confirming deletion appears.

Alternative options :
Delete This Item :
Delete the location selected in Step 2.
Delete All Address Book Entries (or Delete All Destinations) :
Delete all the Address Book or Destination History data.

4 Select "Yes".
The data you selected is deleted.

Alternative option:
No :
The display shown in Step 3 appears.

❒ Because deleted data cannot be restored, take extra care not to select "**Delete All Address Book Entries**" by mistake.

Changing the position of locations registered in the Address Book

You can select a location registered in the **Address Book**, display a map of its surroundings, and change its position.

1 In the Address Book menu, touch on the right-hand side of the place whose position you want to change.

2 Touch "Edit Information", and then touch "Modify Location".
The map of the selected area and its surroundings appears.

3 Touch the display to change its position, then touch "OK".

The position is changed.

Loading registered locations data from a CD-R

Address Book data stored on a CD-R (-RW) can be loaded to the Navigation System.
This function is used when moving Address Book data from a Pioneer navigation unit with a PC card slot (e.g., AVIC-80DVD) to a Pioneer navigation unit without a PC card slot (e.g., AVIC-N1).

❒ When moving data, copy the folder named "**POINT**" from the PC card to the personal computer. Then use the personal computer to store the "**POINT**" folder in the first level of the CD-R (-RW).

1 Insert the CD-R (-RW) to the disc loading slot.

2 Touch "Information" in the Main menu, then touch "Read from Disc".
The list of groups appears.

3 Touch the desired group.

4 Touch the desired locations.
Selected locations are marked. To load the data from other locations, repeat this step.
Alternative option:
Select All:
All the locations are selected (or canceled) at once.

5 Touch "OK".
The data of the selected locations is stored in the Address Book.

Setting Areas to Avoid

If you register **Areas to Avoid**, such as crowded intersections or congested areas, routes can be calculated that avoid those areas. **Areas to Avoid** can be set from the Route Options menu.

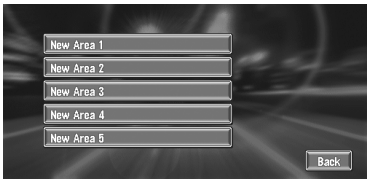
❒ An area not stored on the disc cannot be set as an Area to Avoid.

Registering an Area to Avoid

This section describes how to register an Area to Avoid for the first time. You can register up to five Areas to Avoid.

1 Touch "Route Options" in the Main menu, then touch "Designate Areas to Avoid".

2 Select one of the items shown in "New Area".
When registering for the first time, any item on the list is shown as "**New Area**".



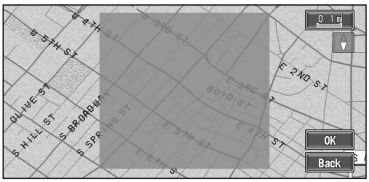
3 Select the place to register and display the map.
➲ Searching places to register → Chapter 3

Once a search is complete, a map with the specified location at its center appears.

4 Change the map scale and decide the size of the Area to Avoid.
The Area to avoid is enclosed in a red frame.

You can also change the map scale though the maximum map scale for registering Areas to Avoid is 0.1 mile (100 m).

5 Scroll the map, adjust the position of the red frame, and touch "OK".



If you want to stop registration, touch "**Back**".

❒ Depending on the setting of route search conditions, you may not be able to avoid the specified areas. The confirmation message is displayed on the screen at this time.

➲ Information on route calculation conditions → Page 40

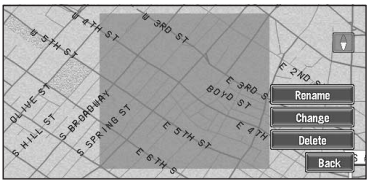
Changing or deleting an Area to Avoid

You can subsequently change/rename/delete an Area to Avoid.

1 Touch "Route Options" in the Main menu, then touch "Designate Areas to Avoid".

2 Select the area you want to change or delete.

3 Select the desired operation.



On this screen, you can select the following options:

Rename :
Changes the name. Enter the new name and touch "**OK**". This returns you to the Route Options menu.

Change :
A specified area can be changed. For the next steps, see Step 3 in the "Registering an Area to Avoid" above.

Delete :
Delete the selected Area to Avoid.

Changing Background Picture

In the menu operation screen, you can indicate a picture you like on the background. Some pictures are already stored, but you can also use pictures (JPEG format data) created by a personal computer or a digital camera. If you save the pictures to a CD-R (or CD-RW), you can use them as background pictures. The following two types of background pictures can be changed:

- **AV Background** : Background for the screen during the operation of audio, or during playback.
- **Navigation Background** : Background of navigation menu screen.

Several background pictures are stored in the Pioneer DVD map disc. If you want to use these pictures, insert the Pioneer DVD map disc.
Here, a method of changing background picture is described with an example of loading the picture stored on a CD-R (-RW) onto the navigation system as the background picture.

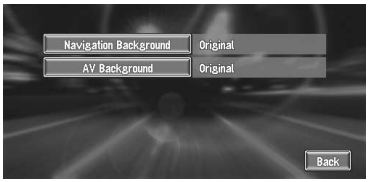
❒ When storing original pictures on a CD-R (-RW), create a folder named "**BG**" in a CD-R (-RW), and store the picture files in this folder. Up to 20 picture files can be used in the **BG** folder.

❒ When creating a "**Background Picture Setting**" CD-R (-RW) for changing the navigation unit background picture, make sure the total data size of the CD-R (-RW) is greater than 100MB. However, you cannot use a CD-R (-RW) containing MP3 files or the Audio data part (CD-DA session) for the "**Background Picture Setting**" function.

1 Insert a CD-R (-RW) to the disc loading slot.

2 Touch "Settings" in the Main menu, then touch "Background Picture Setting".
The picture selected for each screen is indicated on the right side of "**AV Background**" and "**Navigation Background**" items.

3 Touch "Navigation Background" or "AV Background".



4 Touch "Import from Disc".

The list of the pictures stored in a CD-R (-RW) is displayed.

On this screen, you can select the following item:

Back to Original :

The picture when purchased is selected.

- ❒ When a CD-R (or CD-RW) is inserted, you cannot select "**Back to Original**". When the Pioneer DVD map disc is inserted, you cannot select "**Import from Disc**".
- ❒ In step 4, touching other than "**Import from Disc**" allows you to select a background image stored on the Pioneer DVD map disc.

5 Touch a picture you want for the background.

6 Select how to display the picture.

You can select the following items:

"Center" :

Selected picture is displayed at the center of the screen.

"Repeat" :

Selected picture is patterned, and displayed as covering the whole screen.

- ❒ When selecting images already stored on the Pioneer DVD map disc, you cannot select the layout method for those images.

The background image starts changing. After a short while, the new background image appears.

7 Touch "Done".

On this screen, you can select the following items:

Select another Picture :

This is selected when you want to change to another picture. Return to Step 5.

Change to another background :

Select if you want to successively change the Audio Operating screen backgrounds or the Navigation backgrounds. Return to step 3.

- ❒ Only JPEG format (".jpg" or ".JPG") pictures can be used as a background picture.
- ❒ You can only use standard characters (alphabets of both cases: A-Z, a-z) and numbers (0-9) for the file name of a background picture (international (accented) characters cannot be used).
- ❒ Pictures up to a maximum of 2048×1536 pixels can be used. We cannot guarantee a proper operation for a picture bigger than this size.
- ❒ Progressive format JPEG pictures cannot be used.
- ❒ When changing a picture starts, do not cut off the vehicle engine until the message informing the completion of changing a picture is indicated.
- ❒ When the Navigation System is reset, or the language setting is changed, the background picture may change back to the original picture. (There is also a possibility that the system will revert to the original picture for some other reason). If this happens, set the background picture again.

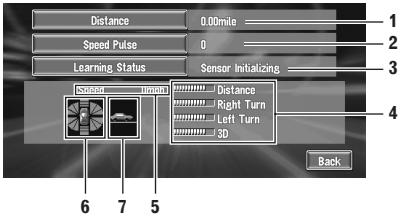
Checking the Navigation Status

The navigation status, including the driving status of a vehicle, positioning status by satellite, learning status of the 3D sensor, and cable connection status can be checked.

Checking sensor learning status and driving status

1 Touch "Information" in the Main menu, then touch "3D Calibration".

The 3D Calibration screen appears.



1. **Distance**
   Driving distance is indicated.
2. **Speed Pulse**
   Total number of speed pulses is indicated.
3. **Learning Status**
   Current driving mode is indicated.
4. **Degree of learning**
   Learning situations of Distance, Right Turn, Left Turn, and 3D detection are indicated by the length of bars.
5. **Speed**
   Speed detected by this unit is indicated. (This indication may be different from the actual speed of your vehicle, so please do not use this instead of the speedometer of your vehicle.)
6. **Front and back G/Rotational speed**
   Accelerated velocity of your vehicle in front / back direction is indicated. Also, rotational speed when your vehicle turns to left or right is shown.
7. **Inclination**
   Degree of slope of the street is indicated.

To clear values...

If you want to delete the learned results stored in "**Distance**", "**Speed Pulse**" or "**Learning Status**", touch the relevant result, then touch "**Clear**".

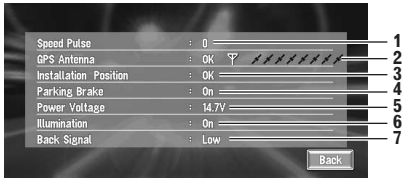
❒ This unit can automatically use two types of sensor memory based on the outer dimensions of the tires.

Checking the connections of leads and installation positions

Check that leads are properly connected between the navigation unit and the vehicle. Please also check whether they are connected in the correct positions.

1 Touch "Information" in the Main menu, then touch "Connection Status".

The Connection Status screen appears. Either "**OK**" or "**NG**" (or "**No**") appears on the screen, and the connection status of each cable is shown.



1. **Speed Pulse**
   The Speed Pulse value detected by this unit is shown. "0" is shown while the vehicle is stationary.
2. **GPS Antenna**
   Indicates the connection status of the GPS antenna, the reception sensitivity, and from how many satellites the signal is received.
3. **Installation Position**
   The Installation position of the navigation unit is shown.
4. **Parking Brake**
   When the parking brake is applied, "**On**" is displayed. When the parking brake is released, "**Off**" is displayed.

5. **Power Voltage**
   The power supply (reference value) provided from the vehicle battery to this unit is shown. If the voltage does not fall within the range of 11 to 15V, check that power cable connection is correct.
6. **Illumination**
   When the headlights or small lamps of a vehicle are on, "**On**" is displayed. (If the orange/white lead is not connected, "**Off**" appears.)
7. **Back Signal**
   When the gear lever is shifted to "R", the signal switches to "**High**" or "**Low**". (Which of these is displayed depends on the vehicle.)

Setting the Vehicle Dynamics Display

You can change the values displayed by in the instruments on the left and right of the Sensor View.

❒ **Vehicle Dynamics** cannot be displayed if sensor initialization is not complete.

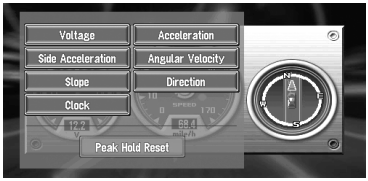
1 Switch to the Vehicle Dynamics Display.

➲ Changing the map display mode ➞ Page 29

2 Touch the left or right instrument.

Touch keys are displayed.

3 Touch the items you want to display.



You can select the following items.

- **Voltage**
- **Acceleration**:

Acceleration in a forward direction is displayed. The + sign indicates acceleration while the - sign indicates deceleration.

- **Side Acceleration**:

Acceleration in the lateral direction is displayed. The + sign indicates a left turn, while the – sign indicates a right turn.

- **Angular Velocity**
- **Slope**
- **Direction**:

The direction your vehicle is traveling in is displayed.

- **Clock**:

Current time is displayed.

❒ If you touch "**Peak Hold Reset**", the maximum and minimum (green line) values indicated in "**Acceleration**" and "**Side Acceleration**" are reset.

❒ You cannot change the speedometer at the center.

❒ Selecting Demo mode in the Settings menu enables you to perform a demonstration with random values.

Customizing Your Navigation System

⚠ CAUTION

- **For safety reasons, these functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking break before setting your route.**

Modifying the Default Settings

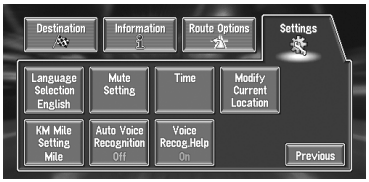
You can tailor default settings such as navigation functions and information display for ease of use. The following example describes how to change settings. In this example, the "**KM/Mile Setting**" settings is set to "**Mile & Yard**".

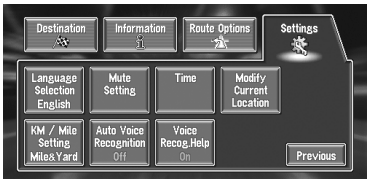
1 Touch "Settings" in the Main menu.
The Settings menu appears.

2 Touch "Next".
The screen changes. "**Mile**" is displayed below "**KM/Mile Setting**", indicating that this function is currently set to "**Mile**".

- ❒ When you touch items with a setting below them, their setting changes. When you touch items with no setting below them, a setting screen appears.
- ❒ Touching "**Next**" or "**Previous**" changes the screen and displays another item.

3 Touch "KM/Mile Setting".





"**Mile & Yard**" is displayed below "**KM/Mile Setting**", indicating that "**KM/Mile Setting**" is set to "**Mile & Yard**".
If you want to change another setting, select the item you want to change and repeat the procedure in step 3.

Items Users can Change

This section describes the details of the setting for each item. Settings marked with an asterisk (*) show that they are default or factory settings.

Return Home

➲ Registering and changing your home location → Page 45

Go to

➲ Registering and changing your favorite location → Page 45

Set Memory Area

The memory area is the area in the map, which is being read in advance for the memory navi mode. Approximately a 7.5 mile perimeter with the selected location at the center is read into the memory.
Indicate the map you want to store in the memory by touching ◀, ▶, ▲ or ▼. Then, adjust the map scale to the one you desire, and touch "**OK**". Continuously touching ◀, ▶, ▲ or ▼ allows you to rapidly scroll the map screen.

- ❒ An area not stored in the disc cannot be memorized.

Average Speed

When calculating expected time of arrival and the number of hours to the destination, the average speed for the freeway or ordinary road used is set.

- **Major Ordinary Road**
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 10 miles to 120 miles (45 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 20 km to 150 km (70 km*).

- **Minor Ordinary Road**
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 10 miles to 100 miles (35 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 20 km to 110 km (55 km*).

- **Freeway**
- When the "**KM/Mile Setting**" is set to "**Mile**" or "**Mile & Yard**", it can be set in 5 mile increments from 30 miles to 120 miles (60 miles*).
- When the "**KM/Mile Setting**" is set to "**km**", it can be set in 5 km increments from 60 km to 150 km (85 km*).

Hardware Volume

The sound volume for the navigation can be set. You can separately set the volume of the route guidance and of the beep sound.

❒ Volume of the audio source is adjusted by the VOLUME dial of the navigation unit.

Demo Mode

This is a demonstration function for shops. After a route is set, the simulation of the route guidance to a destination is automatically displayed. Normally, set this to "**Off**".

On (Repeat) :
Repeat demo drive.
Off* :
Demo Mode is set off.

❒ If you eject the map disc during the demo drive, the demo mode will be stopped.

Day/Night Display

To improve the visibility of the map during the evening, you can change the combination of the colors of the map.

Nighttime* :
You can change the combination of the colors of a map according to whether the vehicle lights are On or Off.

Daytime :
The map is always displayed with bright colors.

Map Display

Screen display-related items can be set.

- **Tracking Display**

The tracking display setting has the following options.
Always :
Display tracking for all journeys.
This Trip :
Display tracking dots but erase them when the navigation system is turned off (when turning off the engine of your vehicle).
Off* :
Do not display tracking dots.

- **AV Guide Mode**

Setting whether or not to switch to the navigation screen automatically when your vehicle approaches a guidance point such as an intersection while displaying a screen other than navigation.
On* :
Switching from audio operation screen to navigation screen.
Off :
Screen is not switched.

- **Close-up of Junction**

This setting enables to switch to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of freeway, or a junction.
On* :
Display switches to an enlarged map.
Off :
Does not switch to an enlarged map.

• **Arrow in AV**

Set whether to display the guidance information by arrow on the Audio Operation screen.

On* :

Display guidance information by arrow on the Audio Operation screen.

Off :

Do not display guidance information by arrow on the Audio Operation screen.

Background Picture Setting

➲ The background picture can be changed ➞ Page 50

Language Selection

➲ The language displayed can be set ➞ Page 97

Once you change the language, installation of the program starts.

⚠ CAUTION

- **Once the installation of the program starts, do not stop the engine of your vehicle and do not switch off the Navigation System until the installation is completed and the map of your surroundings appears.**

Mute Setting

Items related to muting of sound volume can be set.

❒ When Voice Guidance or Voice Recognition are ON, be sure to set the **TEL/GUIDE** setting in the Audio Menu to **MUTE** or **ATT**.

• **Voice Recognition**

This setting controls whether the volume of the Audio source is automatically muted during voice operation.

On* :

During voice operation, the volume of the Audio source is muted automatically.

Off :

The volume of the Audio source stays the same during voice operation.

❒ If you select "**Off**", the sound from the Audio source may interfere with the voice recognition system.

• **Voice Guidance**

This setting controls whether the volume of the Audio source is automatically muted during voice guidance.

On* :

During voice guidance, the volume of the Audio source is muted automatically.

Off :

Volume of the Audio source stays the same during voice guidance.

Time

Adjusts the systems clock. The time difference (+, –) between the time originally set in this unit is set here.

You can also select summer time On/Off.

➲ Time settings ➞ Page 98

On :

Summer time is taken into account.

Off* :

Summer time is not taken into account.

❒ When the period of summer time comes, or when the summer time ends, this unit does not automatically change the summer time setting.

➲ Change the summer time setting ➞ Page 98

Modify Current Location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

KM/Mile Setting

This setting controls the unit of distance displayed on your Navigation System.

Mile * :

Show distances in miles.

Mile & Yard :

Show distances in miles and yards.

km :

Show distances in kilometers.

Auto Voice Recognition

After you have started the engine, turn on voice recognition and set whether or not to perform all operations up to route searching by voice. (This function is effective only when a route is not set.)

- ❒ You should set "**Auto Voice Recognition**" only when the microphone of the voice recognition system (sold separately) is connected.
- ❒ In order to operate the navigation unit by voice, you need the microphone kit (CD-VC1), which is sold separately. Before connecting the microphone, be sure to first turn the ignition switch OFF (ACC OFF). When the microphone is connected, turn the ignition switch ON (ACC ON).

On :
The automatic voice recognition is engaged each time your vehicle is started.
Off* :
Voice operation starts after touching **VOICE** icon.

Voice Recog.Help

This setting controls the list of available voice commands displayed during voice operation. You should set "**Voice Recog.Help**" only when the microphone of the voice recognition system (sold separately) is connected.

On* :
The list of commands is shown.
Off :
The list of commands is not shown.

Using the AV Source (Built-in DVD Drive and Radio)

You can play a DVD video, CD, MP3 disc or use the radio with the navigation unit. This chapter describes how to use the audio source and the basic operation of the audio source.

Basic Operation

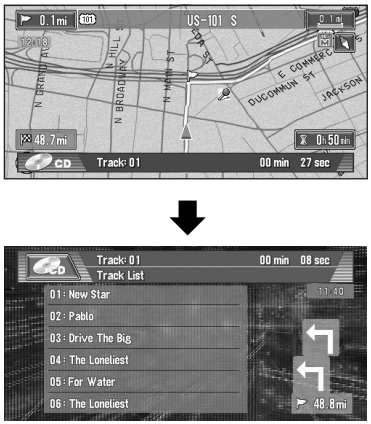
➲ For information on most basic operations, refer to "How to listen to a CD" ➞ Page 24

Activating the touch panel keys

(1)

(1) Touch panel keys
Touch to do various operations.

1 Press the NAVI/AV button to switch Audio operation screen.



2 Touch the screen to activate the touch panel keys corresponding to each source.
The touch panel keys appear on the display.

To go to the next group of touch panel keys, touch ➞.

3 Touch "ESC" to hide the touch panel keys.

❒ If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.

How to display each menu

1 Press the NAVI/AV button to switch Audio operation screen.

2 Select the desired source.

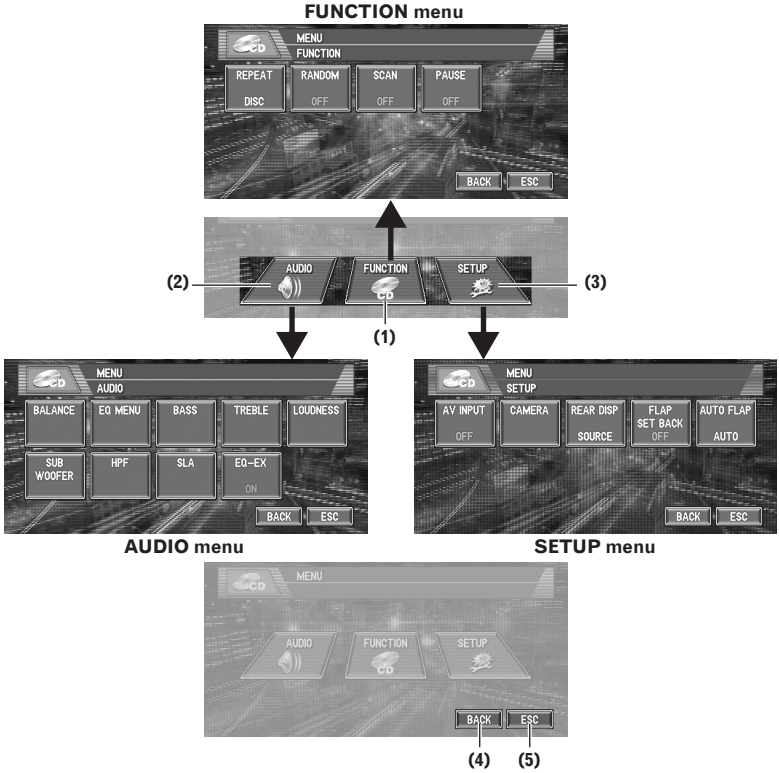
3 Touch the screen.
Touch keys are displayed on the screen.

4 Touch "A.MENU" to display MENU.

Touch keys (e.g., CD)

5 Touch “AUDIO”, “FUNCTION” or “SETUP” to enter the menu you want to operate.

Each menu is displayed. The items that cannot be operated according to the sources or conditions are indicated in gray.



(1) FUNCTION key

Touch to enter the **FUNCTION** menu for each source.

➲ Using the **FUNCTION** menu ➞ “Operation using the FUNCTION menu” and “Advanced <each source> operation”

(2) AUDIO key

Touch to select various sound quality controls.

➲ Using the **AUDIO** menu ➞ Page 81

(3) SETUP key

Touch to select various setup functions.

➲ Using the **SETUP** menu ➞ Page 89

(4) BACK key

Touch to return to the previous display.

(5) ESC key

Touch to cancel the control mode of functions.

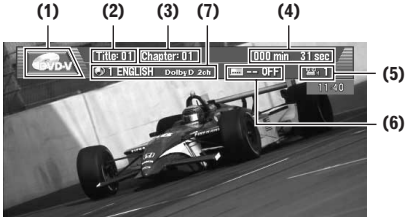
6 Touch “ESC” to return to the display of each source.

❒ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

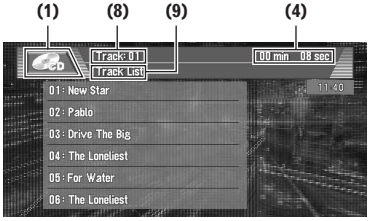
Operating the Built-in DVD drive

You can play a DVD video, CD or MP3 disc using the built-in DVD drive of the navigation unit. This section describes common operations for these media.

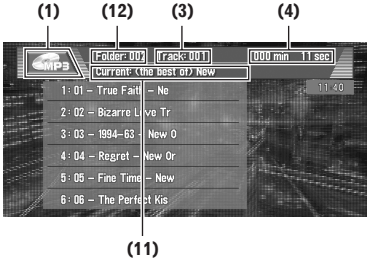
DVD video



CD



MP3



➲ Common operation of the **DISC** sources ➞ Page 62

➲ More advanced DVD video operation ➞ Page 65

❒ Pressing the **DISP** button changes the screen display.

➲ Switching screen display ➞ Page 91

(1) Source icon
Shows which source has been selected.

(2) Title number indicator
Shows the title currently playing.

(3) Chapter number indicator
Shows the chapter currently playing.

(4) Play time indicator
Shows the elapsed playing time of the current chapter (track, or file).

(5) Viewing angle indicator
Shows what viewing angle has been selected.

(6) Subtitle language indicator
Shows what subtitle language has been selected.

(7) Audio language indicator
Shows what audio language and audio system have been selected.

(8) Track number indicator
Shows the track currently playing.

(9) Disc title indicator
Shows the title of the currently playing disc.

(10) Repeat indicator
Shows the selected repeat range.

(11) Current folder name indicator
Shows the folder name currently playing.

(12) Folder number indicator
Shows the folder number currently playing.

❒ When playing discs with MP3 files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3 and CD-DA by touching "**DA·MP3**" or pressing **BAND** button.

❒ If you have switched between playback of MP3 files and audio data (CD-DA), playback starts at the first track on the disc.

❒ This built-in DVD drive can play back an MP3 file recorded on CD-ROM.

❒ There is sometimes a delay between starting up playback and the sound being issued. This is particularly the case when playing back multi-session and many folders. When being read in, **Reading Format** is displayed.

❒ Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 001 (ROOT) contains no files, playback commences with folder 002.)

❒ When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.

❒ If more than 193 tracks are stored in the folder, some time may be required to display the track list.

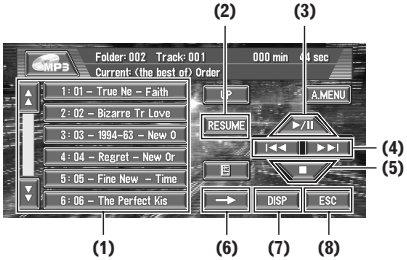
Touch key operation

1 Touch the source icon and then touch "DISC" to select the built-in DVD drive.

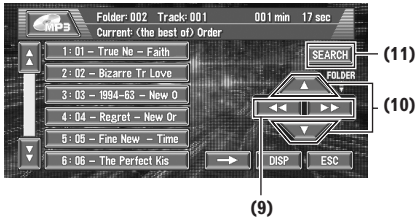
When the source icon is not displayed, you can display it by touching the screen.
If no disc is loaded in navigation unit, you cannot select "**DISC**" (built-in DVD drive).

➲ Insert a disc in navigation unit ➞ Page 24

2 Touch the screen to display the touch panel keys.



Touch keys (e.g., MP3, Page 1)


Folder: 002 Track: 001
001 min 17 sec
Current: (the best of) Order
1 : 01 – True Ne – Faith
2 : 02 – Bizarre Tr Love
3 : 03 – 1994–63 – New O
4 : 04 – Regret – New Or
5 : 05 – Fine New – Time
6 : 06 – The Perfect Kis
SEARCH
FOLDER
DISP
ESC
(11)
(10)
(9)

Touch keys (e.g., MP3, Page 2)

(1) Selecting tracks or folders from the list

The list lets you see the list of track titles or folder names on a disc and select one of them to playback.

❒ If a folder list or a track list is not displayed, touch "**DISP**".

❒ Touching ⏶ or ⏷ switches to the next or previous page in the list.

❒ A list will not be displayed when using DVD video.

❒ In the case of normal CDs, no title information is recorded. Accordingly, the display shows "**–**".

(2) Using the resume function.

When a disc is removed, the playback location of the disc is automatically memorized. If you insert the disc again and touch "**RESUME**", playback of a disc resumes at the same point you stopped previously.

- **DVD:** Playback resumes from the point in time when the disc was removed.
- **CD, MP3:** Playback resumes from the beginning of the last track that played when the disc was removed previously.

❒ If you touch and hold "**RESUME**" in playback, the location will be recorded. When you touched "**RESUME**" again, playback resumes from the recorded location.

❒ For CD/MP3 discs and DVD video, one replay position each can be recorded.

❒ To delete the recorded position, touch and hold "**RESUME**" with the disc stopped.

❒ No replay position can be recorded for mixed mode CDs such as those containing MP3 files and audio data (CD-DA) and for discs using a special recording method.

❒ Some replay positions cannot be recorded. This will depend on the playback position.

(3) Playback and Pause

Pause lets you temporarily stop disc playback. Touching ▶/❚❚ switches between "playback" and "pause".

- **DVD:** The icon ❚❚ is displayed for four seconds and playback is paused letting you view a still image.

❒ Depending on the disc and the playback location on the disc, the icon ⃠ may be displayed indicating that still playback is not possible.

- **CD, MP3:** The **PAUSE** is displayed for four seconds and playback is paused.

(4) DVD:Skip the chapter forward or backward

Touching ▶▶| skips to the start of the next chapter. Touching |◀◀ once skips to the start of the current chapter. Touching again will skip to the previous chapter.

❒ You can also skip back or forward to another chapter by moving the joystick left or right.

CD, MP3:Skip the track forward or backward

Touching ▶▶| skips to the start of the next track. Touching |◀◀ once skips to the start of the current track. Touching again will skip to the previous track.

❒ You can also skip back or forward to another track by moving the joystick left or right.

(5) Using to stop playback

- **DVD:** When you stop DVD playback by touching ■, that location on the disc is memorized enabling playback from that point when you play the disc again.
- **CD, MP3:** When you stop CD playback by touching ■, that track number on the disc is memorized enabling playback from that track when you play the disc again.

❒ To play the disc again, touch ▶/❚❚.

(6) Switching next page of touch keys

(7) Switching the screen display

➲ Switching screen display ➞ Page 91

(8) Disappear the touch keys

(9) Fast forward or backward

Keep touching ◀◀ or ▶▶ to perform fast forward or backward.

- **DVD:** If you keep touching ◀◀ or ▶▶ for five seconds, the icon ◀◀ or ▶▶ changes into ⧏◁ or ▷⧐. When this happens, fast reverse/fast forward continues even if you release ◀◀ or ▶▶. To resume playback at a desired point, touch ▶/❚❚.

❒ Fast forward/fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

❒ You can also perform fast reverse/fast forward by holding the joystick left or right.

- **CD, MP3:** There is no sound on fast forward or reverse. This is fast forward and backward operation only for the file being played. This operation is canceled when the previous or next file is reached.

(10) DVD:Skip the title forward or backward

Touching ▲ skips to the start of the next title. Touching ▼ skips to the start of the previous title.

❒ You can also skip back or forward to another title by moving the joystick up or down.

MP3: Using the folder up or down

To return to folder 001 (ROOT), press and hold **BAND** button. However, if folder 001 (ROOT) contains no files, playback commences with folder 002.

You cannot select a folder that does not have an MP3 file recorded in it.

❒ You can also skip back or forward to another folder by moving the joystick up or down.

❒ When playing discs with MP3 files and audio data (CD-DA), you cannot use **BAND** button to return folder 001 (ROOT).

(11) DVD:Searching for a desired scene, starting playback from a specified time. (Refer to page 66)

CD, MP3:Searching for a desired track

You can use the search function to specify a track to search for a desired track.

Touch 0 — 9 to input the desired number.

- To select 3, touch 3.
- To select 10, touch 1 and 0 in order.
- To select 23, touch 2 and 3 in order.

To cancel the input numbers, touch "**CLEAR**".

While the input number is displayed, touch "ENTER".

This starts playback from the selected track.

(MP3) Switching mode between MP3 and CD-DA

When playing discs with MP3 files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3 and CD-DA.

1 Touch "DA·MP3".

You can also press the **BAND** button to switch between MP3 and CD-DA.

(MP3) Moving to upper folders

In the case of an MP3 disc in which the data is divided into folders, you can move a track to upper folders. This is used to playback tracks recorded in other folders.

1 Touch "UP".

❒ If the current folder is the ROOT folder, "**UP**" is displayed in gray.

(MP3) Displaying text information on MP3 disc

Text information recorded on a MP3 disc can be displayed.

1 Touch [E].

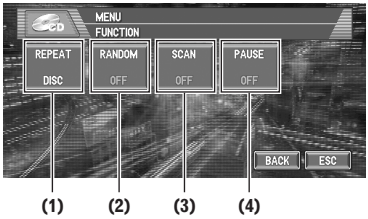
The next piece of information is displayed.

- **Disc Title** (disc title)
- **Track Title** (track title)
- **Folder Title** (folder name)
- (file name)
- **Artist Name** (artist name)
- **Genre** (genre)
- **Year** (year)

If specific information has not been recorded on MP3 files on disc, nothing may be displayed.

Operation using the FUNCTION menu

➲ How to display the **FUNCTION** menu → Page 59



FUNCTION menu (e.g., CD)

❒ "**RANDOM**" and "**SCAN**" cannot be used during a DVD video playback.

(1) Repeating play

Each touch of the "**REPEAT**" changes the settings as follows:

DVD:

- **TITLE** — Repeat just the current title
- **CHAPTER** — Repeat just the current chapter
- **OFF** — Play throughout the current disc

❒ If you perform chapter (title) search or fast forward/reverse, or slow motion playback the repeat play range changes to "**OFF**".

CD:

- **TRACK** — Repeat just the current track
- **DISC** — Repeat the current disc

❒ If you perform track search or fast forward/reverse, repeat play is automatically canceled.

❒ When playing discs with MP3 files and audio data (CD-DA), repeat play performs within the each data session even if **DISC** is selected.

MP3:

- **FOLDER** — Repeat the current folder
- **TRACK** — Repeat just the current track
- **DISC** — Repeat all tracks

❒ If you select another folder during repeat play, the repeat play range changes to **DISC**.

❒ If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **DISC**.

❒ When **FOLDER** is selected, it is not possible to play back a subfolder of that folder.

❒ When playing discs with MP3 files and audio data (CD-DA), repeat play performs within the currently playing data type even if **DISC** is selected.

(2) Playing tracks in a random order

Touching "**RANDOM**" switches between "**ON**" and "**OFF**". In the case of MP3, the selected tracks in the repeated range are randomly played.

(3) CD:Scanning tracks of a CD
Touching "**SCAN**" switches between "**ON**" and "**OFF**". Scan play lets you hear the first 10 seconds of each track on the CD. When you find the desired track touch "**SCAN**" to turn scan play off.

❒ After scanning of a CD is finished, normal playback of the tracks will begin again.

MP3:Scanning folders and tracks
Touching "**SCAN**" switches between "**ON**" and "**OFF**". Scan play takes place for the selected tracks in the repeat range. When you find the desired track touch "**SCAN**" to turn scan play off.

❒ After track or folder scanning is finished, normal playback of the tracks will begin again.

(4) Pausing disc playback
Touching "**PAUSE**" switches between "**ON**" and "**OFF**".

Other DVD video function

When playing the DVD video, you can also use the following functions.

Operating the DVD menu

Some DVDs allow you to select the disc contents using a menu.

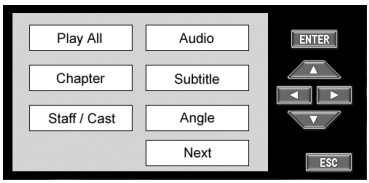
- You can display the menu by touching "**MENU**" or "**TOP.M**" while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

1 Touch the screen to display to touch panel keys.

2 Touch → to display ◁◈▷.

3 Touch ◁◈▷ to display touch panel keys to operate the DVD menu.

4 Touch ▲, ▼, ◀ or ▶ to select the desired menu item.



5 Touch "ENTER".
Playback starts from the selected menu item. The way to display the menu differs depending on the disc.

Frame-by-frame playback

This lets you move ahead one frame at a time during playback.

1 Touch ⏸▶ during playback.
Each time you touch ⏸▶, you move ahead one frame.
To return to normal playback, touch ▶/⏸.

❒ Depending on the disc and the playback location on the disc, the icon ⃠ may be displayed indicating that frame-by-frame playback is not possible.

❒ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Keep touching ⏸▶ until ▫▷ is displayed during playback.
The icon ▫▷ is displayed, forward slow motion playback begins.
To return to normal playback, touch ▶/⏸.

❒ There is no sound during slow motion playback.

❒ Depending on the disc and the playback location on the disc, the icon ⃠ may be displayed indicating that slow motion playback is not possible.

❒ With some discs, images may be unclear during slow motion playback.
❒ Reverse slow motion playback is not possible.

Searching for a desired scene, starting playback from a specified time

You can use the search function to search for a desired scene by specifying a title or chapter, and the time search function to specify the time on a disc at which play starts.

- Chapter search and time search are not possible when disc playback has been stopped.

1 Touch "SEARCH" and then touch "TITLE" (title), "CHAP" (chapter) or "TIME" (time).

2 Touch 0 — 9 to input the desired number.

For titles and chapters

- To select 3, touch 3.
- To select 10, touch 1 and 0 in order.
- To select 23, touch 2 and 3 in order.

For time (time search)

- To select 21 minutes 43 seconds, touch 2, 1, 4 and 3 in order.
- To select 1 hour 11 minutes, convert the time into 71 minutes 00 seconds and touch 7, 1, 0 and 0 in order.

To cancel the input numbers, touch "**CLEAR**".

3 While the input number is displayed, touch "ENTER".

This starts playback from the selected scene.

❒ With discs featuring a menu, you can also touch "**MENU**" or "**TOP.M**" and then make selections from the displayed menu.
❒ With some discs, the icon ⃠ may be displayed, indicating that titles, chapters and time cannot be specified.

Changing audio language during playback (Multi-audio)

DVDs can provide audio playback with different languages and different systems (Dolby Digital, DTS etc.). With DVDs featuring multi-audio recordings, you can switch between languages/audio systems during playback.

1 Touch "AUDIO" during playback.

Each time you touch "**AUDIO**" switches between audio mode.

❒ The number in the (2)))) mark on a DVD's package indicates the number of recorded languages/audio systems.
❒ With some DVDs, switching between languages/audio systems may only be possible using a menu display.
❒ Only digital output of DTS audio is possible. If navigation unit's optical digital outputs are not connected, DTS audio will not be output, so select an audio setting other than DTS.
❒ Display indications such as Dolby D and 5.1ch indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.
❒ Touching "**AUDIO**" during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

Changing the subtitle language during playback (Multi-subtitle)

With DVDs featuring multi-subtitle recordings, you can switch between subtitle languages during playback.

1 Touch "SUB.T" during playback.

Each time you touch "**SUB.T**" switches between subtitle language.

❒ The number in the [2] mark on a DVD's package indicates the number of recorded subtitle languages.
❒ With some DVDs, switching between subtitle languages may only be possible using a menu display.
❒ Touching "**SUB.T**" during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

Changing the viewing angle during playback (Multi-angle)

With DVDs featuring multi-angle (scenes shot from multiple angles) recordings, you can switch among viewing angles during playback.

- During playback of a scene shot from multiple angles, the angle icon is displayed. Turn angle icon display on or off using **DVD SETUP** menu.

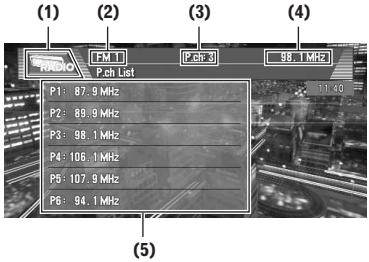
➲ Setting angle icon → Page 85

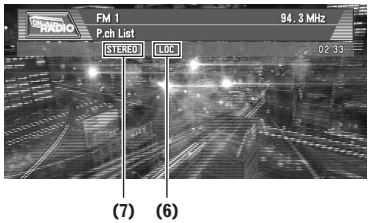
1 Touch "ANGLE" during playback of a scene shot from multiple angles.
Each time you touch "**ANGLE**" switches between angle.

- ❒ The mark on a DVD's package indicates it features multi-angle scenes. The number in the mark indicates the number of angles from which scenes were shot.
- ❒ Touching "**ANGLE**" during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

Radio

Listening to the radio





These are the basic steps necessary to operate the radio.

➲ More advanced radio operation ➞ Page 68

- ❒ Pressing the **DISP** button changes the screen display.

➲ Switching screen display ➞ Page 91

(1) Source icon
Shows which source has been selected.

(2) Band indicator
Shows which band the radio is tuned to AM or FM.

(3) Preset number indicator
Shows what preset has been selected.

(4) Frequency indicator
Shows to which frequency the tuner is tuned.

(5) Preset list display
Shows the preset list.

(6) LOCAL indicator
Shows when local seek tuning is on.

(7) STEREO indicator
Shows that the frequency selected is being broadcast in stereo.

1 Touch the source icon and then touch "RADIO" to select the radio.

2 Touch the screen to display the touch panel keys.

3 Touch "BAND" to select a band.
Touch "**BAND**" repeatedly until the desired band is displayed, FM1, FM2, FM3 for FM or AM.

4 To perform manual tuning, touch ◄ or ► briefly.
The frequencies move up or down step by step.
You can also perform manual tuning by moving the joystick left or right.

5 To perform seek tuning, keep touching ◄ or ► for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
You can cancel seek tuning by touching either ◄ or ► briefly.
If you keep touching ◄ or ► you can skip broadcasting stations. Seek tuning starts as soon as you release the keys.
You can also perform seek tuning by holding the joystick left or right.

❒ If you do not use the touch panel keys for 30 seconds, they will be hidden automatically.

Advanced radio operation

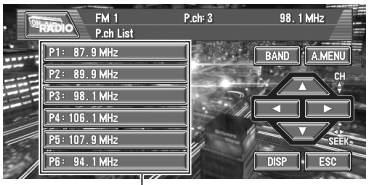
(1)

(1) Function display
Shows the function names.

➲ How to display the **FUNCTION** menu → Page 59

Storing and recalling broadcast frequencies

If you touch any of the preset tuning keys **P1** (PRESET 1) — **P6** (PRESET 6) you can easily store up to six broadcast frequencies for later recall with the touch of a key.



Preset tuning keys (P1 — P6)

1 When you find a frequency that you want to store in memory keep touching a preset tuning key P1 — P6 until the preset number (e.g., P.ch: 1) stops flashing.
The number you have touched will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

2 The next time you touch the same preset tuning key P1 — P6 the radio station frequency is recalled from memory.
When the touch panel keys are not displayed, you can display them by touching the screen. When **P1** — **P6** are not displayed, you can display them by touching **DISP**.

❒ Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.

❒ You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning keys **P1** — **P6**.

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch "LOCAL" in the FUNCTION menu.

2 Touch "LOCAL" to turn local seek tuning on.
To turn local seek tuning off, touch "**LOCAL**".

3 Touch ◄ or ► to set the sensitivity.
There are four levels of sensitivity for FM and two levels for AM:
FM: 1 — 2 — 3 — 4
AM: 1 — 2
The 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning keys **P1** — **P6** and once stored there you can tune in to those frequencies with the touch of a key.

1 Touch "BSM" in the FUNCTION menu.

2 Touch "START" to turn BSM on.
BSM begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning keys **P1** — **P6** in order of their signal strength. When finished, **BSM** stops flashing.
To cancel the storage process, touch **STOP**.

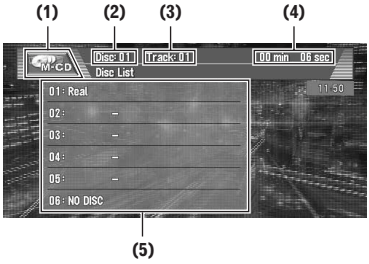
❒ Storing broadcast frequencies with **BSM** may replace broadcast frequencies you have saved using **P1** — **P6**.

Using the AV Source (Pioneer AV Equipments)

When Pioneer audio equipment is connected to the navigation system using IP-BUS or AV-BUS, such equipment can be operated from the navigation unit. This chapter describes the operation of the audio source that can be used when the Pioneer audio equipment is connected.
When reading this chapter, please also refer to the operation manual of the AV equipment connected to the navigation system.

Multi-CD Player

Listening a CD



You can use navigation unit to control a multi-CD player, which is sold separately.
These are the basic steps necessary to play a CD with your multi-CD player.

➲ More advanced **M-CD** operation ➞ Page 72

❒ Pressing the **DISP** button changes the screen display.

➲ Switching screen display ➞ Page 91

(1) Source icon
Shows which source has been selected.

(2) Disc number indicator
Shows the disc currently playing.

(3) Track number indicator
Shows the track currently playing.

(4) Play time indicator
Shows the elapsed playing time of the current track.

(5) Disc list display
Shows the disc title list.

1 Touch the source icon and then touch "M-CD" to select the multi-CD player.

2 Touch the screen to display the touch panel keys.

3 Touch any of 01 — 06 to select a disc you want to listen to.
If you want to select a disc located at 7 to 12, touch ⩓ or ⩔ to display **07** — **12**.
When **01** — **06** and **07** — **12** are not displayed, you can display them by touching "**DISP**".
You can also sequentially select a disc by touching ▲ or ▼ or moving the joystick up or down.

4 To skip back or forward to another track, touch ◄ or ►.
Touching ► skips to the start of the next track. Touching ◄ once skips to the start of the current track. Touching again will skip to the previous track.
You can also skip back or forward to another track by moving the joystick left or right.

5 To perform fast forward or reverse, keep touching ◄ or ►.
You can also perform fast reverse/fast forward by holding the joystick left or right.

❒ When the multi-CD player has performed the preparatory operations, **READY** is displayed.

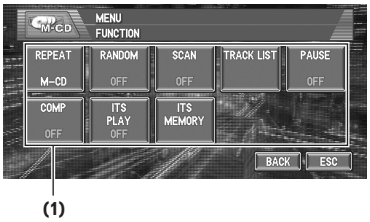
❒ If the multi-CD player does not operate properly, an error message such as **ERROR-11** may be displayed. Refer to the multi-CD player owner's manual.

❒ If there are no discs in the multi-CD player magazine, **NO DISC** is displayed.

50-disc multi-CD player

Only those functions described in this manual are supported for 50-disc multi-CD players.
(But this unit can perform the disc list display up to Disc 12 with a 50-disc multi-CD player.)

Advanced multi-CD player operation



(1) Function display
Shows the function names.

➲ How to display the **FUNCTION** menu ➞ Page 59

Repeating play

There are three repeat play ranges for the multi-CD player: **M-CD** (multi-CD player repeat), **TRACK** (one-track repeat) and **DISC** (disc repeat).

1 Touch "REPEAT" in the FUNCTION menu.
Each touch of the "**REPEAT**" changes the settings as follows:
- **M-CD** — Repeat all discs in the multi-CD player
- **TRACK** — Repeat just the current track
- **DISC** — Repeat the current disc

❒ If you select other discs during repeat play, the repeat play range changes to **M-CD**.

❒ If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **DISC**.

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, **M-CD** and **DISC**.

1 Select the repeat range.
➲ Repeating play ➞ Page 72

2 Touch "RANDOM" in the FUNCTION menu.
Touching "**RANDOM**" switches between "**ON**" and "**OFF**".
Tracks will play in a random order within the previously selected **M-CD** or **DISC** ranges.

Scanning CDs and tracks

While you are using **DISC**, the beginning of each track on the selected disc plays for about 10 seconds. When you are using **M-CD**, the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.
➲ Repeating play ➞ Page 72

2 Touch "SCAN" in the FUNCTION menu.
Touching "**SCAN**" switches between "**ON**" and "**OFF**".
The first 10 seconds of each track of the current disc (or the first track of each disc) is played.

3 When you find the desired track (or disc) touch "SCAN" to turn scan play off.
❒ After track or disc scanning is finished, normal playback of the tracks will begin again.

Pausing CD playback

Pause lets you temporarily stop disc playback.

1 Touch "PAUSE" in the FUNCTION menu.
Touching "**PAUSE**" switches between "**ON**" and "**OFF**".
Play of the current track pauses.

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favorite tracks from those in the multi-CD player magazine. After you have added your favorite tracks to the playlist you can turn on ITS play and play just those selections.

Creating a playlist with ITS programming

You can use ITS to enter and playback up to 99 tracks per disc, for up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

1 Play a CD that you want to program.

➲ How to select a CD ➞ Page 71

2 Touch "ITS MEMORY" in the FUNCTION menu.

3 Touch ◀ or ▶ to select a track you want to memorize.

4 Touch "MEMORY" to store the currently playing track in the playlist.

MEMORY is displayed briefly and the currently playing selection is added to your ITS playlist.

Touching "**CLEAR**" will delete all the tracks recorded in the ITS playlist.

❒ After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Playback from your ITS playlist

ITS play lets you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi-CD player will begin to play.

1 Select the repeat range.

➲ Repeating play ➞ Page 72

2 Touch "ITS PLAY" in the FUNCTION menu.

Touching "**ITS PLAY**" switches between "**ON**" and "**OFF**".

Playback begins of those tracks from your playlist within the previously selected **M-CD** or **DISC** ranges.

If no tracks in the current range are programmed for ITS play then **ITS EMPTY** is displayed.

To turn ITS play off, touch "**ITS PLAY**".

Erasing a track from your ITS playlist

When you want to delete a track from your ITS playlist, you can if ITS play is on.

If ITS play is already on, skip to step 2.

1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.

➲ Playback from your ITS playlist ➞ Page 73

2 Touch "ITS MEMORY" in the FUNCTION menu.

3 Touch ◀ or ▶ to select a track you want to erase.

4 Touch "CLEAR" to erase a selected track from your ITS playlist.

The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.

If there are no tracks from your playlist in the current range, **ITS EMPTY** is displayed and normal play resumes.

Erasing a CD from your ITS playlist

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

1 Play a CD that you want to delete.

➲ How to select a CD ➞ Page 71

2 Touch "ITS MEMORY" in the FUNCTION menu.

3 Touch "CLEAR" to erase all tracks on the currently playing CD from your ITS playlist.

All tracks on the currently playing CD are erased from your playlist and **ALL CLEAR** is displayed.

Using CD TEXT functions

You can use these functions only with a CD TEXT compatible multi-CD player.

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

Displaying titles on CD TEXT discs

➲ Switching screen display ➞ Page 91

Selecting tracks from the track title list

Track title list lets you see the list of track titles on a CD TEXT disc and select one of them to playback.

1 Touch "TRACK LIST" in the FUNCTION menu.

2 Touch ▲ or ▼ to switch between the lists of titles.

3 Touch the track title in the list.
That selection will begin to play.

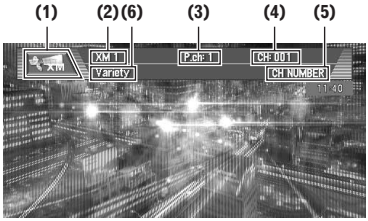
Using compression and bass emphasis

You can use these functions only with a multi-CD player that supports them.
Using **COMP** (compression) and **DBE** (dynamic bass emphasis) functions lets you adjust the sound playback quality of the multi-CD player. Each of the functions has a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. DBE boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Touch "COMP" in the FUNCTION menu.
If the multi-CD player does not support **COMP**/**DBE**, **NO COMP** is displayed and you cannot select the function.
Touch **COMP** repeatedly to switch between the following settings:
COMP OFF — **COMP 1** — **COMP 2** — **COMP OFF** — **DBE 1**— **DBE 2**

XM tuner

Listening to the XM



You can use navigation unit to control a XM satellite digital tuner (GEX-P910XM), which is sold separately.
For details concerning operation, refer to the XM tuner's operation manuals. This section provides information on XM operations with navigation unit which differs from that described in the XM tuner's operation manual.

- This unit does not have the text scroll function.
- With navigation unit, you can operate one additional function: XM channel direct selection.

❒ Pressing the **DISP** button changes the screen display.

➲ Switching screen display ➞ Page 91

(1) Source icon
Shows which source has been selected.

(2) XM band indicator
Shows the XM band which has been selected.

(3) XM preset number indicator
Shows what XM preset has been selected.

(4) XM channel number indicator
Shows to which XM channel number the tuner is tuned.

(5) XM channel select setting indicator
Shows what channel select setting has been selected. CH Number is displayed when **CH NUMBER** is selected, and Category is displayed when **CATEGORY** is selected.

(6) XM channel name
Shows the channel name of broadcast channel.

1 **Touch the source icon and then touch "XM" to select the XM.**

2 **Touch the screen to display the touch panel keys.**

3 **Touch "BAND" to select a XM band.**
Touch "**BAND**" repeatedly until the desired XM band is displayed, XM1, XM2 or XM3.

4 **To perform tuning, touch ◄ or ►.**
The channels move up or down step by step. Channels that cannot currently be selected are skipped, and the next channel is selected. If you keep touching ◄ or ►, you can increase or decrease channel number continuously.
You can also perform manual tuning by moving the joystick left or right.
You can also perform tuning from a desired channel category.
➲ Selecting the channel in the channel category ➞ Page 75

Switching the XM display

➲ Switching screen display ➞ Page 91

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **P1** — **P6** you can easily store up to six broadcast stations for later recall with the touch of a key.

1 **When you find a station that you want to store in memory keep touching a preset tuning key P1 — P6 until the XM preset number (e.g., P.ch: 1) stops flashing.**
The number you have touched will flash in the XM preset number indicator and then remain lit. The selected station has been stored in memory.
The next time you touch the same preset tuning key **P1** — **P6** the station is recalled from memory.
When the touch panel keys are not displayed, you can display them by touching the screen. When **P1** — **P6** are not displayed, you can display them by touching ➞.
❒ Up to 18 stations, 6 for each of three XM bands can be stored in memory.
❒ You can also use ▲ and ▼ to recall stations assigned to preset tuning keys **P1** — **P6**.

Switching the XM channel select setting

You can switch if you select a channel with a channel number or from a channel category when you select a channel.

1 **Touch "MODE" to select the desired channel select setting.**
Touch "**MODE**" repeatedly to switch between the following channel select settings:
CH NUMBER (channel number select setting) — **CATEGORY** (channel category select setting)

Selecting the channel in the channel category

1 **Touch "MODE" to select the channel category select setting.**
Touch "**MODE**" repeatedly to switch between the following channel select settings:
CH NUMBER (channel number select setting) — **CATEGORY** (channel category select setting)

2 **Touch ▲ or ▼ to select the desired channel category.**

3 **Touch ◄ or ► to select the desired channel in the selected channel category.**

Selecting the XM channel directly

You can select the XM channel directly by entering the desired channel number.

1 **Touch "DIRECT".**
CHANNEL INPUT appears in the display.

2 **Touch 0 — 9 to input the desired channel number.**
To cancel the input numbers, touch "**CLEAR**".

3 **While the input number is displayed, touch "ENTER".**
The entered XM channel is selected.

Display the ID code

Channel number select setting

If you select CH : 000, the ID code is displayed.

1 Touch ◄ or ► to select “CH : 000”.

Channel category select setting

RADIO ID is provided as a channel category for displaying the ID code.

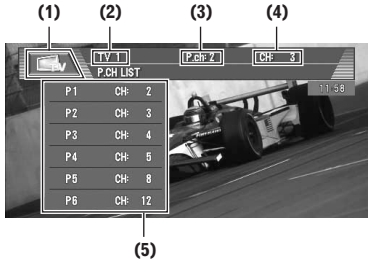
1 Touch ▲ or ▼ to select “RADIO ID” from channel category.

If you select another channel, display of the ID code is canceled.

Display of the ID code repeats displaying RADIO ID and the ID code one after the other.

TV tuner

Watching the TV tuner



You can use navigation unit to control a TV tuner, which is sold separately.

For details concerning operation, refer to the TV tuner’s operation manual. This section provides information on TV operations with navigation unit that differ from those described in the TV tuner’s operation manual.

❒ Pressing the **DISP** button changes the screen display.

➲ Switching screen display ➞ Page 91

(1) Source icon
Shows which source has been selected.

(2) Band indicator
Shows which band the TV tuner is tuned to.

(3) Preset number indicator
Shows which preset has been selected.

(4) Channel indicator
Shows which channel the TV tuner is tuned.

(5) Preset list display
Shows the preset list.

1 Touch the source icon and then touch “TV” to select the TV.

2 Touch the screen to display the touch panel keys.

3 Touch “BAND” to select a band.

Touch “**BAND**” repeatedly until the desired band is displayed, TV1 or TV2.

4 To perform manual tuning, touch ◄ or ► briefly.

The channels move up or down step by step.

You can also perform manual tuning by moving the joystick left or right.

5 To perform seek tuning, keep touching ◄ or ► for about one second and release.

The tuner will scan the channels until a broadcast strong enough for good reception is found.

You can cancel seek tuning by touching either ◄ or ► briefly.

If you keep touching ◄ or ► you can skip broadcasting channels. Seek tuning starts as soon as you release the keys.

You can also perform seek tuning by holding the joystick left or right.

Advanced TV tuner operation

(1)

(1) Function display
Shows the function names.

➲ How to display the **FUNCTION** menu → Page 59

Storing and recalling broadcast stations

If you touch any of the preset tuning keys **P1**—**P12** you can easily store up to 12 broadcast stations for later recall with the touch of a key.

1 When you find a station that you want to store in memory keep touching a preset tuning key P1 — P12 until the preset number (e.g., P.ch: 1) stops flashing.

The number you have touched will flash in the preset number indicator and then remain lit. The selected station has been stored in memory.

The next time you touch the same preset tuning key **P1** — **P12** the station is recalled from memory.

To switch between **P1** — **P6** and **P7** — **P12**, touch ▲ or ▼.

When the touch panel keys are not displayed, you can display them by touching the screen. When **P1** — **P6** and **P7** — **P12** are not displayed, you can display them by touching **DISP**.

- ❒ Up to 24 stations, 12 for each of two TV bands can be stored in memory.
- ❒ You can also use ▲ and ▼ to recall stations assigned to preset tuning keys **P1** — **P12**.

Storing the strongest broadcast stations sequentially

1 Touch "BSSM" in the FUNCTION menu.

2 Touch "START" to turn BSSM on.

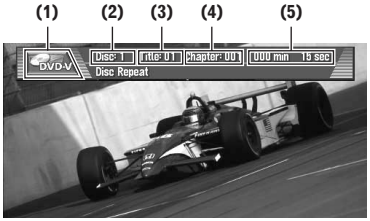
BSSM begins to flash. While **BSSM** is flashing the 12 strongest broadcast stations will be stored in order from the lowest channel up. When finished, **BSSM** disappears.

To cancel the storage process, touch "**STOP**".

- ❒ Storing broadcast stations with BSSM may replace broadcast stations you have saved using **P1** — **P12**.

DVD Player (S-DVD)

Playing a disc



You can use navigation unit to control a DVD player or multi-DVD player, which is sold separately.
For details concerning operation, refer to the DVD player's or multi-DVD player's operation manuals. This section provides information on DVD operations with navigation unit, which operations differ from those described in the DVD player's or multi-DVD player's operation manual.

(1) Source icon
Shows which source has been selected.

(2) Disc number indicator
Shows the disc currently playing when using a multi-DVD player.

(3) Title number indicator
Shows the title currently playing during DVD video playback.

(4) Chapter/track number indicator
Shows the chapter/track currently playing.

(5) Play time indicator
Shows the elapsed playing time of the current chapter/track.

1 Touch the source icon and then touch "S-DVD" to select the DVD player.
When the source icon is not displayed, you can display it by touching the screen.

2 Touch the screen to display the touch panel keys.

3 To skip back or forward to another chapter/track, touch ◄ or ► briefly.
You can also skip back or forward to another chapter/track by moving the joystick left or right.

4 To perform fast forward or reverse, keep touching ◄ or ► for about one second and release.
You can also perform fast reverse/fast forward by holding the joystick left or right.
If you keep touching ◄ or ► for five seconds, the icon ◄◄ or ►► changes into ⧏◄ or ►⧐. When this happens, fast reverse/fast forward continues even if you release ◄ or ►.

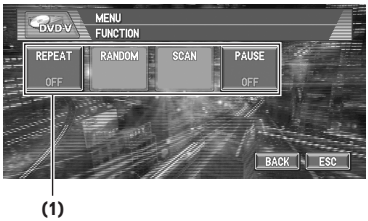
❒ To stop fast reverse/fast forward, touch reverse direction ◄ or ►.

Selecting a disc

❒ Only when a multi-DVD player is connected to navigation unit, you can operate this function.

1 Touch ▲ or ▼ to select a disc.
You can also skip back or forward to another disc by moving the joystick up or down.

Advanced DVD player operation



(1) Function display
Shows the function names.

➲ How to display the **FUNCTION** menu → Page 59

Repeating play

❒ During PBC playback of Video CDs, this function cannot be operated.

1 Touch "REPEAT" in the FUNCTION menu.
Each touch of the "**REPEAT**" changes the settings as follows:
During DVD video playback
- **TITLE** — Repeat just the current title
- **CHAPTER** — Repeat just the current chapter
- **DISC** — Repeat the current disc

During Video CD or CD playback

- **TRACK** — Repeat just the current track
- **DISC** — Repeat the current disc

❒ If you select other discs during repeat play, the repeat play range changes to **DISC**.

❒ If you perform track search or fast forward/reverse during **TRACK**, the repeat play range changes to **DISC**.

Pausing disc playback

1 Touch "PAUSE" in the FUNCTION menu.
Touching "**PAUSE**" switches between "**ON**" and "**OFF**".

Playing tracks in a random order

❒ You can operate this function only during CD playback.

1 Touch "RANDOM" in the FUNCTION menu.
Touching "**RANDOM**" switches between "**ON**" and "**OFF**".
Tracks will play in a random order.

Scanning tracks of a CD

❒ You can operate this function only during CD playback.

1 Touch "SCAN" in the FUNCTION menu.
Touching "**SCAN**" switches between "**ON**" and "**OFF**".
The first 10 seconds of each track is played.

2 When you find the desired track touch "SCAN" to turn scan play off.

Using ITS playlists

❒ Only when a multi-DVD player is connected to navigation unit, you can operate these functions.

❒ This function differs slightly from ITS playback with a multi-CD player. With multi-DVD player, ITS playback applies only to the CD playing.

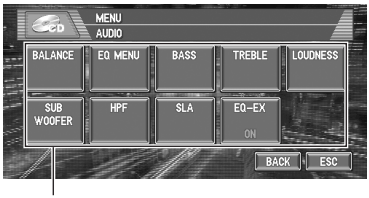
➲ Using ITS playlists ➞ Page 72

Customizing the Audio Source Setting

Various settings according to your audiovisual requests are available with the audio source. This chapter describes the methods of changing the various settings and how to set of the LCD panel.

Audio Adjustments

Introduction of audio adjustments



(1)

(1) Audio display
Shows the audio function names.

➲ How to display the **AUDIO** menu ➞ Page 59

If **EQ-EX** function has been selected and only when **EQ-EX** is turned on and **CUSTOM** is selected as the equalizer curve, you can switch to **BASS** and **TREBLE**.
Only when the subwoofer controller setting is **PREOUT FULL**, **NON FADING** will be displayed instead of **SUB WOOFER**.

➲ Setting the rear output and subwoofer controller ➞ Page 87

When selecting the FM tuner as the source, you cannot switch to "**SLA**".

Using the equalizer

The equalizer lets you adjust the equalization to match vehicle interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
POWERFUL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM	Custom
FLAT	Flat
SUPER BASS	Super bass

1 Press EQ button to select the equalizer.
Press **EQ** button repeatedly to switch between the following equalizers:
POWERFUL — **NATURAL** — **VOCAL** — **CUSTOM** — **FLAT** — **SUPER BASS**

- ❒ **CUSTOM** is an adjusted equalizer curve that you create.
- ❒ A separate **CUSTOM** curve can be created for each source. If you make adjustments, the equalizer curve settings will be memorized in **CUSTOM**.
- ❒ When **FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **FLAT** and a set equalizer curve.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Touch "FAD/BAL" in the AUDIO menu.
When the rear output setting is **REAR SP SUB. W**, **BALANCE** will be displayed instead of **FAD/BAL**.

➲ Setting the rear output and subwoofer controller ➞ Page 87

2 Touch ▲ or ▼ to adjust front/rear speaker balance.

Each time you touch ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.

FRONT:15 — **REAR:15** is displayed as the front/rear speaker balance moves from front to rear.

FR:00 is the proper setting when only two speakers are used.

When the rear output setting is **REAR SP SUB. W**, you cannot adjust front/rear speaker balance.

➲ Setting the rear output and subwoofer controller ➞ Page 87

3 Touch ◀ or ▶ to adjust left/right speaker balance.

Each time you touch ◀ or ▶ moves the left/right speaker balance towards the left or the right.

LEFT:09 — **RIGHT:09** is displayed as the left/right speaker balance moves from left to right.

Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

- You can adjust the center frequency, level and the Q factor (curve characteristics) of each currently selected curve band (**LOW**/**MID**/**HIGH**).
  - **BAND:**
  You can select the equalizer band.
  - **LEVEL:**
  You can select the decibel (dB) level of the selected EQ.
  - **FREQUENCY:**
  You can select which frequency to be set as the center frequency.
  - **Q FACTOR:**
  You can select the details of the curve characteristics.

1 Touch "EQ MENU" in the AUDIO menu.

2 Touch ◀ or ▶ to select the equalizer band to adjust.

Each time you touch ◀ or ▶ selects equalizer bands in the following order:

LOW (low) — **MID** (mid) — **HIGH** (high)

3 Touch "+" or "–" to adjust the level of the equalizer band.

Each time you touch "**+**" or "**–**" increases or decreases the level of the equalization band. **+6** — **–6** is displayed as the level is increased or decreased.

4 Touch ◀ or ▶ to select the desired frequency.

Touch ◀ or ▶ until the desired frequency appears in the display.

Low: 40 — 80 — 100 — 160 (Hz)
Mid: 200 — 500 — 1k — 2k (Hz)
High: 3.15k — 8k — 10k — 12.5k (Hz)

5 Touch ◀ or ▶ to select the desired Q factor.

Touch ◀ or ▶ until the desired Q factor appears in the display.

2WIDE — **1WIDE** — **1NARROW** — **2NARROW**

❒ If you make adjustments, **CUSTOM** curve is updated.

Adjusting bass and treble

Use this function to adjust the bass and treble. The ability to select the frequency as well as the level gives you good control over the tonal balance of the audio.

The bass and treble adjust screens allow you to reduce or boost frequencies in the following area;

Bass - 40, 63, 100, 160 (Hz)
Treble - 2.5K, 4K, 6.3K, 10K (Hz)

- If **EQ-EX** is turned on and **CUSTOM** is selected as the equalizer curve, you can adjust bass and treble settings.

➲ Compensating for equalizer curves (**EQ-EX**) ➞ Page 84

1 Touch "BASS" or "TREBLE" in the AUDIO menu.

2 Touch ◀ or ▶ to select the desired frequency.

3 Touch "+" or "–" to adjust the bass or treble level.
Each time you touch "**+**" or "**–**" increases or decreases the bass or treble level. **+6** — **–6** is displayed as the level is increased or decreased.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Touch "LOUDNESS" in the AUDIO menu.

2 Touch "ON" to turn loudness on.
To turn loudness off, touch "**OFF**".

3 Touch ◀ or ▶ to select a desired level.
Each time you touch ◀ or ▶ selects level in the following order:
LOW (low) — **MID** (mid) — **HIGH** (high)

Using subwoofer output

This unit is equipped with a subwoofer output which can be turned on or off.

- When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1 Touch "SUB WOOFER" in the AUDIO menu.
When **PREOUT** (the subwoofer controller setting in **INITIAL** menu) is **FULL**, you cannot select "**SUB WOOFER**".
➲ Rear speaker setting ➞ Page 87

2 Touch "ON" to turn subwoofer output on.
To turn subwoofer output off, touch "**OFF**".

3 Touch "REVERSE" or "NORMAL" to select the phase of subwoofer output.

4 Touch "+" or "–" to adjust the output level of the subwoofer.
+6 — **–6** is displayed as the level is increased or decreased.

5 Touch ◀ or ▶ to select cut-off frequency.
Each time you touch ◀ or ▶ selects cut-off frequencies in the following order:
50 — 80 — 125 (Hz)
Only frequencies lower than those in the selected range are output from the subwoofer.

Using non fading output

When the non fading output setting is on, the audio signal does not pass through navigation unit's low pass filter (for the subwoofer), but is output through the RCA output.

1 Touch "NON FADING" in the AUDIO menu.
Only when **PREOUT**(the subwoofer controller setting in **INITIAL** menu) is **FULL**, you can select "**NON FADING**".
➲ Rear speaker setting ➞ Page 87

2 Touch "ON" to turn non fading output on.
To turn non fading output off, touch "**OFF**".

3 Touch "+" or "–" to adjust the output level of the non fading.
+6 — **–6** is displayed as the level is increased or decreased.

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn the **HPF** (high pass filter) on. Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Touch "HPF" in the AUDIO menu.

2 Touch "ON" to turn high pass filter on.
To turn high pass filter off, touch "**OFF**".

3 Touch ◀ or ▶ to select cut-off frequency.
Each time you touch ◀ or ▶ selects cut-off frequencies in the following order:
50 — 80 — 125 (Hz)
When **PREOUT** (the subwoofer controller setting in **INITIAL** menu) is **SW**, the **HPF** function is effective for front speakers only.

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM tuner volume level, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Touch "SLA" in the AUDIO menu.

3 Touch "+" or "–" to adjust the source volume.

+4 — **–4** is displayed as the source volume is increased or decreased.

- ❒ The AM tuner volume level can also be adjusted with source level adjustments.
- ❒ CD and MP3 are set to the same source level adjustment volume automatically.
- ❒ DVD video playing with the built-in DVD drive and the optional DVD player (**S-DVD**) are set to the same source level adjustment volume automatically.
- ❒ External unit 1 and external unit 2 are set to the same source level adjustment volume automatically.
- ❒ **AUX** (auxiliary input) and **AV** (video input) are set to the same source level adjustment volume automatically.

Compensating for equalizer curves (EQ-EX)

The **EQ-EX** function smoothes the effects of each equalizer curve. Furthermore, you can adjust bass and treble for each source when **CUSTOM** curve is selected.

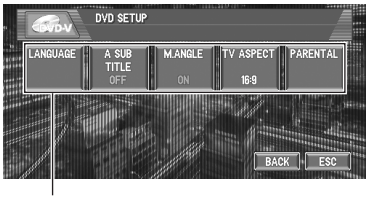
1 Touch "EQ-EX" in the AUDIO menu.

Touching "**EQ-EX**" switches between "**ON**" and "**OFF**".

Setting Up the DVD Player

To set up the DVD of an optional DVD player, please refer to the "Owner's Manual" for that DVD player.

DVD setup adjustments



(1)

You can use this menu to change audio, subtitle, parental lock and other DVD settings.

(1) DVD setup menu display
Shows the DVD setup menu names.

1 Touch ■ and touch the screen to display touch keys.

2 Touch → to display "SET UP".

Touch → until "**SET UP**" appear in the screen. **SET UP** will be displayed instead of **MENU**.

3 Touch "SET UP" when the disc is stopped.

The DVD setup menu is displayed.

4 Touch the desired function.

Setting the language

You can set a desired subtitle, audio and menu language. If the selected language is recorded on the DVD, subtitles, audio, menu are displayed in that language.

1 Touch "SET UP" and "LANGUAGE" and then touch "SUB. T LANGUAGE", "AUDIO LANGUAGE" or "MENU LANGUAGE".

Each language menu is displayed and the currently set language is selected.

2 Touch the desired language.
When you select "**OTHER**", a language code input display is shown. Input the four digit code of the desired language then touch "**ENTER**".

➲ Language code chart for DVD → Page 92

❒ If the selected language is not recorded on the disc, the default language specified on the disc is output and displayed.

❒ You can also switch the subtitle and audio language by touching "**SUB.T**" or "**AUDIO**" during playback.

➲ Changing the subtitle language during playback (Multi-subtitle) → Page 66

➲ Changing audio language during playback (Multi-audio) → Page 66

❒ Even if you use "**SUB.T**" or "**AUDIO**" to switch the subtitle or audio language, this does not affect the settings here.

Setting assist subtitles on or off

Assist subtitles offer explanations for the aurally impaired. However, they are only displayed if they are recorded on the DVD.
You can turn assist subtitles on or off as desired.

1 Touch "SET UP" and then touch "A SUB TITLE".
Touching "**A SUB TITLE**" switches between "**ON**" and "**OFF**".

Setting angle icon display

You can set to display the angle icon on scenes where the angle can be switched.

1 Touch "SET UP" and then touch "M. ANGLE".
Touching "**M. ANGLE**" switches between "**ON**" and "**OFF**".

Setting the aspect ratio

There are two kinds of display. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display connected to REAR OUT.

- When using a regular display, select either **LETTER BOX** or **PANSCAN**. Selecting **16:9** may result in an unnatural picture.
- If you select the TV aspect, navigation unit's display changes to the same setting.

1 Touch "SET UP" and then touch "TV ASPECT".
Each touch of the TV ASPECT changes the settings as follows:

- **16:9**— Wide screen picture (16:9) is displayed as it is (initial setting)
- **LETTER BOX** — The picture is in the shape of a letter box with black bands at the top and bottom of the screen
- **PANSCAN** — The picture is cut short at the right and left of the screen

❒ When playing discs that do not specify **PANSCAN**, playback is with **LETTER BOX** even if you select the **PANSCAN** setting. Confirm whether the disc package bears the 16:9 LB mark. (See "Hardware Manual".)

❒ Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

Setting the parental lock

Some DVD video discs let you use parental lock to restrict the viewing of violent and adult oriented scenes by children. You can set the parental lock level in steps as desired.

- When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

Setting the code number and level

When you first use this function, register your code number. If you do not register a code number, parental lock will not operate.

1 Touch "SET UP" and "PARENTAL" and then touch "PARENTAL".

2 Touch 0 — 9 to input a four digit code number.

3 While the input number is displayed, touch "ENTER".
The code number is registered, and you can now set the level.

4 Touch any of 1 — 8 to select the desired level.

The parental lock level is set.

- **LEVEL 8** — Playback of the entire disc is possible (initial setting)
- **LEVEL 7** — **LEVEL 2** — Playback of discs for children and non-adult oriented discs is possible
- **LEVEL 1** — Playback of discs for children only is possible

❒ If you want to change the parental level, enter the registered code number in the Step 2.

❒ We recommend to keep a record of your code number in case you forget it.

❒ The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, included literature or on the disc itself. With discs that do not feature a recorded parental lock level, you cannot use parental lock.

❒ With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.

❒ If you forget the registered code number, touch "**CLEAR**" 10 times on the screen in the Step 2. The registered code number is canceled, letting you register a new one.

Initial Settings

Adjusting initial settings

Initial settings lets you perform initial set up of different settings for navigation unit.

(1) Function display
Shows the function names.

1 Touch the source icon and then touch "SOURCE OFF" to turn source off.
When the source icon is not displayed, you can display it by touching the screen.

2 Touch "A.MENU" and then touch "INITIAL" to display the function names.
The function names are displayed and operable ones are selected.
When "**A.MENU**" is not displayed, you can display it by touching the screen.
To return to the previous display, touch "**BACK**".
To return to the display of each source, touch "**ESC**".

Switching the auxiliary setting

It is possible to use auxiliary equipment with navigation unit. Activate the auxiliary setting when using auxiliary equipment connected to navigation unit.

1 Touch "AUX" in the INITIAL menu.
Touching "**AUX**" switches between "**ON**" and "**OFF**".

Setting the rear output and sub-woofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**REAR SP FULL**) or subwoofer (**REAR SP SUB. W**) connection. If you switch the rear output setting to the **REAR SP SUB. W**, you can connect a rear speaker lead directly to a sub-woofer without using an auxiliary amp.
Initially, navigation unit is set for rear full-range speaker connection (**REAR SP FULL**). When rear output is connected to full range speakers (when **REAR SP FULL** is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **PREOUT SUB. W** or the auxiliary **PREOUT FULL**.

1 Touch "REAR SP" in the INITIAL menu.

2 Touch "REAR SP" to switch the rear output setting.
When no subwoofer is connected to the rear output, select **FULL**.
When a subwoofer is connected to the rear output, select **SUB. W**.

❒ When the rear output setting is **SUB. W**, you cannot change the subwoofer controller.

3 Touch "PREOUT" to switch the sub-woofer output or non fading output.

❒ Even if you change this setting, there is no output unless you turn "**NON FADING**" or "**SUB WOOFER**" in the **AUDIO** menu "**ON**".

➲ Using non fading output → Page 83

➲ Using subwoofer output → Page 83

❒ If you change the subwoofer controller (**REAR SP**), the subwoofer output (**SUB WOOFER**) and non fading output (**NON FADING**) in the **AUDIO** menu return to the factory settings.

❒ Both rear speaker leads output and RCA rear output are switched simultaneously in this setting.

Switching the sound muting/ attenuation

Sound from this system is muted, attenuated or mixed automatically in the following cases:

- When a call is made or received using a cellular telephone connected to navigation unit.
- When the voice guidance is output.

1 Touch "TEL/GUIDE" in the INITIAL menu.
Each touch of the "**TEL/GUIDE**" changes the settings as follows:

- **MUTE**— Muting
- **ATT** — Attenuation
- **NORMAL** — Volume does not change

❒ The sound is turned off, no audio adjustment is possible.

❒ When a phone connection is made, **MUTE** or **ATT** is indicated.

❒ Operation returns to normal when the phone connection or the voice guidance is ended.

❒ Even when you receive a phone call, navigation voice guidance cannot be attenuated or muted. Use the **Hardware Volume** to control the navigation voice guidance volume.

Switching the automatic disc playback

You can turn automatic disc playback on or off when you insert a disc into the disc loading slot. When this function is on, the disc will be automatically played after it is inserted into the disc loading slot.
Initially, this function is set to **OFF**.

1 Touch "DISC AUTO" in the INITIAL menu.
Touching "**DISC AUTO**" switches between "**ON**" and "**OFF**".

Switching the dimmer setting for sub-display

To prevent the sub-display from being too bright at night, the sub-display is automatically dimmed when the vehicle's headlights are turned on. You can turn dimmer on or off.

1 Touch "SUB. D. DIM" in the INITIAL menu.

Touching "**SUB. D. DIM**" switches between "**ON**" and "**OFF**".

❒ Initially, this function is set to **OFF**.

Changing the voice output of the navigation guidance

When there is a navigation guidance, you can mix the guidance voice/beep sound from a navigation with the audio sound from this system. You can select the speaker output the navigation guidance.

1 Touch "GUIDE VOICE" in the INITIAL menu.

Each touch of the "**GUIDE VOICE**" changes the settings as follows:

L+R (Front speakers) — **R** (Front right speaker) — **L** (Front left speaker)

Switching the 5.1ch setting

When the navigation unit is combined with the multi-channel processor system (sold separately), you can use the multi-channel sound. Enter the following setting when combining the multi-channel processor system.

⚠ CAUTION

- **DO NOT enter this setting before you connect the multi-channel processor system. (If this setting is entered, the RCA will output maximum volume for the multi-channel processor system.) Pioneer is not responsible for any damage to the speaker equipment caused by ignoring this warning.**

1 Touch the source icon and then touch "SOURCE OFF" to turn source off.

When the source icon is not displayed, you can display it by touching the screen.

2 Turn the ACC OFF, and then turn it ON again.

3 Press EQ button, and then without releasing it press ANGLE (-) button.

4 Release ANGLE (-) button first, and then release EQ button.

5 Touch "5.1CH" in the INITIAL menu.

If you touch "**5.1CH**", it will be turned "**ON**". If you touch "**5.1CH**" again to turn "**OFF**" the setting, "**5.1CH**" will disappear. If you want to turn it "**ON**" again, you have to repeat the procedure from the Step1.

Other Functions

Setup adjustments

(1)

(1) Setup menu display
Shows the setup function names.

➲ How to display the **SETUP** menu ➞ Page 59

Setting the video input

You can switch the setting according to the connected component.

- Select "**VIDEO**" to watch video of a connected component as **AV** source.
- Select "**M-DVD**" to watch video of a connected DVD player as **S-DVD** source.

1 Touch "AV INPUT" in the SETUP menu.
Each touch of the "**AV INPUT**" changes the settings as follows:

- **OFF** — No video component is connected
- **VIDEO** — External video component
- **M-DVD** — DVD player connected with RCA cable

When a DVD player is connected with an AV-BUS cable, do not select "**M-DVD**" or else no picture is displayed even if you select **S-DVD**.

Setting for rear view camera

The navigation unit features a function that automatically switches to the rear camera image (REAR VIEW CAMERA IN jack) when a rear camera is installed on your vehicle. When the shift lever is in REVERSE (R) position, the screen automatically switches to a rear view camera. (For more details, consult with your dealer.) You can also use the camera as a rear view camera (**Rear View**). In this case, you can see the image of the rear view camera during normal driving. (The navigation map screen can be displayed on the right-hand side and the camera image can be displayed on the left.) Please beware that in this setting, camera image is not resized to fit, but that a portion of what is seen by the camera is not viewable.

⚠ CAUTION

- **Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise screen image may appear reversed.**

- Confirm the setting immediately whether the display changes to a rear view camera image when the shift lever is moved to REVERSE (R) from another position.
- When the whole screen changes to a rear view camera image during normal driving, switch to another setting.

❒ **Rear View** can be displayed at all times (e.g. when monitoring an attached trailer, etc.) as a split screen where map information is partially displayed. Please beware that in this setting, camera image is not resized to fit, but that a portion of what is seen by the camera is not viewable.

❒ Initially, this function is set to **OFF**.

1 Touch "CAMERA" in the SETUP menu.

2 Touch "CAMERA" to turn rear view camera setting on.
Touching "**CAMERA**" switches between "**ON**" and "**OFF**".

❒ Unless this setting is "**ON**", you cannot switch to Rear View mode.

3 Touch "POLARITY" to select an appropriate setting for polarity.
Each time you touch "**POLARITY**" switches between the following polarity:

- **BATTERY** — When the polarity of the connected lead is positive while the shift lever is REVERSE (R) position
- **GND** — When the polarity of the connected lead is negative while the shift lever is REVERSE (R) position

Selecting the video of rear display

When the navigation screen is displayed on front, you can select either showing the navigation

screen on rear display or the video of the selected source.

❒ The map screen navigation images output to the rear display differ from standard NTSC format images. Therefore, their quality will be inferior to the images that appear on the front display.

1 Touch "REAR DISP" in the SETUP menu.
Each touch of the "**REAR DISP**" changes the settings as follows:

- **SOURCE** — Display the video of the selected source on rear display
- **NAVI**— Display the navigation video on rear display when the navigation screen is displayed on front

❒ When selecting "**SOURCE**" in "**REAR DISP**", when the selected source is an audio source, nothing is displayed on rear display.

❒ When selecting **Rear View**, nothing is displayed on the left-hand side of the rear display.

Setting the slide back function

You can adjust the LCD panel slide position to prevent the display from hitting the shift lever of an automatic vehicle when it is in P (park) position.

❒ Please be careful, as the LCD panel will slide immediately after the setting is turned "**ON**".

1 Touch "FLAP SET BACK" in the SETUP menu.
Touching "**FLAP SET BACK**" switches between "**ON**" and "**OFF**".

Setting the automatic open function

When you do not wish the display to open/close automatically, you can set the automatic open function to the manual mode.

1 Touch "AUTO FLAP" in the SETUP menu.
Each touch of the "**AUTO FLAP**" changes the settings as follows:

- **MANUAL** — You have to press **OPEN/CLOSE** button to open/close the display
- **AUTO** — The display automatically opens/closes when power to navigation unit is turned on

Using the AUX source

An IP-BUS-RCA Interconnector such as the CD-RB20/CD-RB10 (sold separately) lets you connect navigation unit to auxiliary equipment featuring RCA output. For more details, refer to the IP-BUS-RCA Interconnector owner's manual.

Selecting AUX as the source

1 Touch the source icon and then touch "AUX" to select AUX as the source.
When the source icon is not displayed, you can display it by touching the screen.
If the auxiliary setting is turned "**OFF**", "**AUX**" cannot be selected.

➲ Switching the auxiliary setting ➞ Page 86

Switching the background display

You can switch background displays while listening to each source.

1 Press ENT button.
Each time you press **ENT** button the display changes in the following order:

Audio source

- **NAVI** (Normal wall paper) — **AV** (Video input) — **DVD** (DVD video in the built-in DVD drive)

Video source

- Video of currently selected source — **NAVI** (Normal wall paper) — **AV** (Video input) — **DVD** (DVD video in the built-in DVD drive)

❒ When the **AV** (Video input) setting is not set to "**VIDEO**", the background display will not switch to **AV** (Video input).

➲ Switching the AV input setting ➞ Page 89

❒ Only the REAR ON mode is active, the background display will switch to **DVD** (DVD video in the built-in DVD drive).

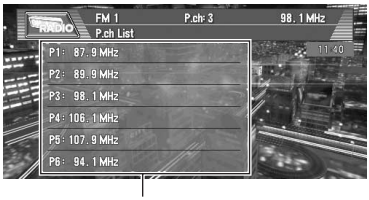
➲ Using the rear display ➞ "Hardware Manual"

❒ During the memory navi mode, you cannot switch to **DVD** (DVD video in the built-in DVD drive).

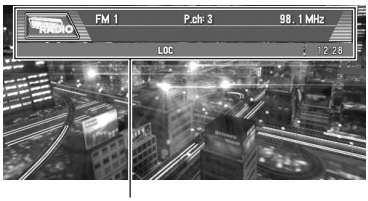
Switching the Screen Using the DISP Button

You can change the screen display using the **DISP** button.

(E.g., **RADIO**)



Preset list



Information plate

- ❒ You cannot switch the screen display with the **DISP** button for the following sources. **S-DVD** (Source DVD), **AV**, **AUX**, **ENT**
- ❒ The indication of the information plate will be switched for the items marked with asterisk (*).

RADIO
Preset list — list off (Information plate only)

DVD video
Normal display — Information plate 1 (with Viewing angle, Subtitle language, Audio language) — Information plate 2 (with Repeat range)

CD (Normal Audio CD)
Title list — list off (Information plate only)

CD (CD TEXT disc)
Some discs have certain information encoded on the disc during manufacture. These discs, which may contain such information as the CD title, track title, artist's name, are called CD TEXT discs.

Track List — Disc Title* — Disc Artist* — Track Title* — Track Artist*

- ❒ If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO ARTIST**).

CD (MP3 disc)
Folder and title list — list off (Information plate only)

M-CD (Normal Audio CD)
Disc List — Disc Title

M-CD (CD TEXT disc)
Disc List — Disc Title* — Disc Artist* — Track Title* — Track Artist*

- ❒ If specific information has not been recorded on a CD TEXT disc, **NO XXXX** will be displayed (e.g., **NO ARTIST**).

TV
Preset list — list off (Information plate only)

XM (XM tuner)
CH display* — Artist name* — Song title display* — Channel number display*

Language Code Chart for DVD

Language (code), input code	Language (code), input code	Language (code), input code
Japanese (ja), 1001	Guarani (gn), 0714	Pashto, Pushto (ps), 1619
English (en), 0514	Gujarati (gu), 0721	Quechua (qu), 1721
French (fr), 0618	Hausa (ha), 0801	Rhaeto-Romance (rm), 1813
Spanish (es), 0519	Hindi (hi), 0809	Kirundi (rn), 1814
German (de), 0405	Croatian (hr), 0818	Romanian (ro), 1815
Italian (it), 0920	Hungarian (hu), 0821	Kinyarwanda (rw), 1823
Chinese (zh), 2608	Armenian (hy), 0825	Sanskrit (sa), 1901
Dutch (nl), 1412	Interlingua (ia), 0901	Sindhi (sd), 1904
Portuguese (pt), 1620	Interlingue (ie), 0905	Sangho (sg), 1907
Swedish (sv), 1922	Inupiak (ik), 0911	Serbo-Croatian (sh), 1908
Russian (ru), 1821	Indonesian (in), 0914	Sinhalese (si), 1909
Korean (ko), 1115	Icelandic (is), 0919	Slovak (sk), 1911
Greek (el), 0512	Hebrew (iw), 0923	Slovenian (sl), 1912
Afar (aa), 0101	Yiddish (ji), 1009	Samoan (sm), 1913
Abkhazian (ab), 0102	Javanese (jw), 1023	Shona (sn), 1914
Afrikaans (af), 0106	Georgian (ka), 1101	Somali (so), 1915
Amharic (am), 0113	Kazakh (kk), 1111	Albanian (sq), 1917
Arabic (ar), 0118	Greenlandic (kl), 1112	Serbian (sr), 1918
Assamese (as), 0119	Cambodian (km), 1113	Siswati (ss), 1919
Aymara (ay), 0125	Kannada (kn), 1114	Sesotho (st), 1920
Azerbaijani (az), 0126	Kashmiri (ks), 1119	Sundanese (su), 1921
Bashkir (ba), 0201	Kurdish (ku), 1121	Swahili (sw), 1923
Byelorussian (be), 0205	Kirghiz (ky), 1125	Tamil (ta), 2001
Bulgarian (bg), 0207	Latin (la), 1201	Telugu (te), 2005
Bihari (bh), 0208	Lingala (ln), 1214	Tajik (tg), 2007
Bislama (bi), 0209	Laothian (lo), 1215	Thai (th), 2008
Bengali (bn), 0214	Lithuanian (lt), 1220	Tigrinya (ti), 2009
Tibetan (bo), 0215	Latvian (lv), 1222	Turkmen (tk), 2011
Breton (br), 0218	Malagasy (mg), 1307	Tagalog (tl), 2012
Catalan (ca), 0301	Maori (mi), 1309	Setswana (tn), 2014
Corsican (co), 0315	Macedonian (mk), 1311	Tonga (to), 2015
Czech (cs), 0319	Malayalam (ml), 1312	Turkish (tr), 2018
Welsh (cy), 0325	Mongolian (mn), 1314	Tsonga (ts), 2019
Danish (da), 0401	Moldavian (mo), 1315	Tatar (tt), 2020
Bhutani (dz), 0426	Marathi (mr), 1318	Twi (tw), 2023
Esperanto (eo), 0515	Malay (ms), 1319	Ukrainian (uk), 2111
Estonian (et), 0520	Maltese (mt), 1320	Urdu (ur), 2118
Basque (eu), 0521	Burmese (my), 1325	Uzbek (uz), 2126
Persian (fa), 0601	Nauru (na), 1401	Vietnamese (vi), 2209
Finnish (fi), 0609	Nepali (ne), 1405	Volapuk (vo), 2215
Fiji (fj), 0610	Norwegian (no), 1415	Wolof (wo), 2315
Faroese (fo), 0615	Occitan (oc), 1503	Xhosa (xh), 2408
Frisian (fy), 0625	Oromo (om), 1513	Yoruba (yo), 2515
Irish (ga), 0701	Oriya (or), 1518	Zulu (zu), 2621
Scots-Gaelic (gd), 0704	Panjabi (pa), 1601	
Galician (gl), 0712	Polish (pl), 1612	

Operating Your Navigation System with Voice

Basics of Voice Operation

Your Pioneer Navigation System comes with the latest in voice recognition technology. You can use voice commands to operate many of its functions. This chapter describes where you can use voice commands, and also what commands the system accepts.

- **In order to operate the navigation unit by voice, you need the microphone kit (CD-VC1), which is sold separately. Please refer to the "Owner's Manual" for the microphone kit.**
- **Some voice commands cannot be used during the memory navi mode.**

Flow of voice operation

You can start voice operation any time even when the map screen is displayed or audio is operated. The basic steps of voice operation are as follows.

1 **Touch VOICE icon to activate voice operation.**

2 **Speak a command into the microphone.**

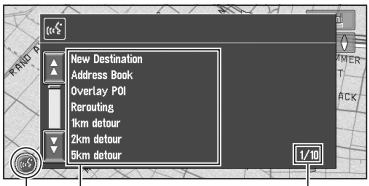
3 **When the command is recognized, it is repeated.**

4 **As necessary, repeat Steps 2 and 3.**

5 **The voice command is carried out.**

When using voice operation for the first time

Until you are familiar with this system, it is recommended to stop the vehicle in a safe place and refer to the commands displayed in the Voice Help menu (a list of the words you can speak). When your vehicle is parked with the parking brake on, Touch **VOICE** icon to display a list of available voice commands (Voice Help menu). Display of the Voice Help menu can be turned on /off with "**Voice Recog.Help**" in the Settings menu.



When voice command is possible

When voice command is not accepted

➲ When you are used to voice operation features and no longer need Voice Help, you can turn it off ➞ Page 58

Scrolling through the Voice Help Menu

Scroll through the remaining commands using ⇧ or ⇩. You can also display the commands by saying the words "Next Page" (or "Previous Page").

- If you want to listen to the message of the Navigation System, say "Repeat".
- If you want to return to the previous screen, say "Back".

To cancel voice operation

You can cancel voice operation features at any time by pressing the **POS** button on the Naviga-

tion System. After you cancel voice operation, the map is displayed.

- ❒ If the system fails to recognize the command you speak, touch **VOICE** icon or say "Next option" and other operable commands will be displayed. If you then touch **VOICE** icon within 3 seconds, yet more commands are shown. Repeat this until the command you want to use is shown.
- ❒ If there are too many items to list, "1/**" is displayed.
- ❒ Depending on the operating state of the navigation system, some commands displayed in Voice Help may be unavailable.
- ❒ If no command is made in the next 6 seconds, voice recognition is canceled and the Navigation System is on hold until the next operation. Touch **VOICE** icon to reactivate voice operation.

Operating by only voice when the Navigation System is started

Turning on "**Auto Voice Recognition**" in the Settings menu allows all settings to be implemented by voice from after the navigation system is turned on and until the route is set (applies only if the route is not yet set).

- ❒ If you press the VOICE button on the steering remote control in CD-VC1 (sold separately) during operation, voice operation mode is canceled.

Voice Commands

Commands marked with an asterisk (*) cannot be used in memory navi mode.

Common commands

Next Page, Previous Page, Back, Next Option, Repeat

Commands for display change

Displaying the navigation screen: Display NAVIGATION
Displaying the Audio screen: Display AV

Available voice commands related to navigation

You can say the following commands:

- ❒ Give the following verbal commands after switching to the navigation screen.

Specifying your destination

New Destination*, Address Book*, Return Home*, <Registered name*>, <POI category name*>

- ❒ For the Address Book, <Registered name>, and <POI category name>, only the commands displayed in Voice Help can be used.
- ❒ When you input a telephone number by voice, only numbers in data can be recognized.
- ❒ You cannot search for telephone numbers of registered locations.

Operating the route being guided

Rerouting*, XX mi/km detour*, Cancel Route, Cancel Way Point, Route Profile, Use/Avoid Freeway*, Use/Avoid Ferry*, Use/Avoid Tollroad*, Fastest Route*, Shortest Route*

Changing map display

Street Map Scale, City Map Scale*, Region Map Scale*, Zoom IN, Zoom Out, Route Profile, Driver's View, Map View, Route View, Guide View, Rear View, AV Status, vehicle Dynamics, Overlay POI*, Cancel Overlay POI*

Available voice commands related to audio

- ❒ The commands you can give verbally depend on the source being switched.
- ❒ Some commands may be canceled according to the condition of audio unit being combined.

Common commands for Audio operations

Disc, Source DVD, Multi CD, Radio, TV Tuner, AV IN, Auxiliary, XM Radio, Source On, Source Off

For RADIO source

Preset 1-6, Seek Up/Down, Band Change

For DISC [DVD video, CD, MP3] source

Track 1-20, Repeat Play, Random Play

❒ In the case of discs containing MP3 files and audio data (CD-DA), the system recognizes which is currently being played back.

❒ In the case of MP3 discs, the system plays back tracks in the current folder.

For Multi-CD (M-CD) source
Track 1-20, Random Play, Disc 1-12, ITS Play, Next Disc, Previous Disc

For XM source
Preset 1-6, Band Change

For TV source
Preset 1-12, Seek Up/Down, Band Change

For S-DVD (M-DVD) source
Disc 1-6, ITS Play, Next Disc, Previous Disc, Random play

An Example of Voice Operation

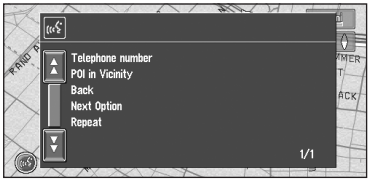
In this example, you want to search for the nearest gas station. When presented with a list of search options, you say the number to the left of the option you want to select.

❒ Give the following verbal commands after switching to the navigation screen.

➲ Voice commands related to Navigation → Page 94

1 Touch VOICE icon.
A list of commands for voice operation appears. After the message, the beep indicates that the system is ready to accept your voice command. You say a command after this beep.

2 Say “New Destination”.
A message to prompt the next operation is given.



❒ Uttering <POI category name> using this procedure starts a vicinity search in that category. In this case, proceed to step 6.

3 Say “POI in Vicinity”.
You say the contents you want to operate. Here, selection method of your destination is specified. When you want to search the gas station nearest to the current location, say “POI in Vicinity”.

4 Say “Gas Station”.
Displays the name of a major gas station group.

5 Say “All Categories”.
The map of the nearest gas station is shown. The message, “Would you like to stop by?” follows.

6 After confirming the location, say “Yes”.

With the location shown on the map set as the destination (or way point), the route calculation starts.

❒ If you want to see maps with other options, at Step 6 say “Next” (or “Previous”).

❒ If you say “No”, the map of that place can be displayed.

➲ Searching the destination by map → Page 33

Tips for Voice Operation

For your voice commands to be correctly recognized and interpreted, ensure that conditions are suitable for recognition.

Reduce the volume setting on your vehicle audio system

➲ The sound volume is automatically reduced during voice operation ➞ Page 57

Close the vehicle windows

Please note that wind through the vehicle window or miscellaneous noise from outside the vehicle can interfere with voice operation.

Position the microphone carefully

For optimum pick-up, the microphone should be fixed at a suitable distance directly in front of the driver.

❒ In order to operate the navigation unit by voice, you need the microphone kit (CD-VC1), which is sold separately. Please refer to the “Owner’s Manual” for the microphone kit.

Pause before giving a command

Speaking too soon may cause the recognition to fail.

Pronounce your commands carefully

Speak slowly, deliberately and clearly.

Appendix

Installing the Program

The program is installed to the Navigation System using the application disc.

This is not necessary if your dealer already performed the installation.

When installing the program, you carry out the following operations. When all the setup procedures are completed, you can use the Navigation System.

1 Insert the disc while the vehicle is parked.

↓

2 Select the language used for the Navigation System.

↓

3 Setting the clock.

1 Park your vehicle in a safe place.

Leave the engine on, and make sure that the parking brake is on.

2 Insert the Pioneer DVD Map disc to the disc loading slot of the Navigation System.

⚠ CAUTION

- **Once the installation of the program starts, do not stop the engine of your vehicle nor switch off the Navigation System until the installation is completed and the following Audio screen appears.**

3 Press the NAVI/AV button to change the navigation screen.

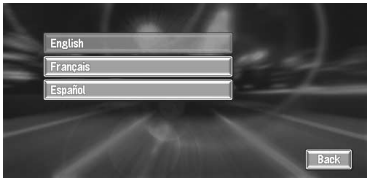
4 Touch "Yes/Oui".

When you start the navigation unit for the first time, you will see a confirmation message asking if you wish to select another language. English is the default language of the Navigation System. If desired, you can select another language as shown.

- ❒ To keep English, touch "**No/Non**". After this, proceed to Step 7.
- ❒ When you want to select another language, touch "**Yes/Oui**", and proceed to the next step.

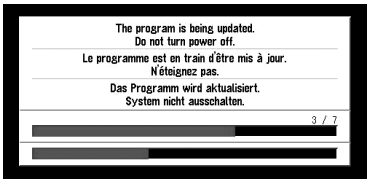
5 Select the language from the list.

Touch the language you want to use.



- ❒ The language selected here is reflected for the Navigation functions (e.g., Destination search, etc.) only.

Installation of the program, in the language you chose, begins.


The program is being updated.
Do not turn power off.
Le programme est en train d'être mis à jour.
N'éteignez pas.
Das Programm wird aktualisiert.
System nicht ausschalten.
3 / 7

When the installation is complete, the opening display appears.

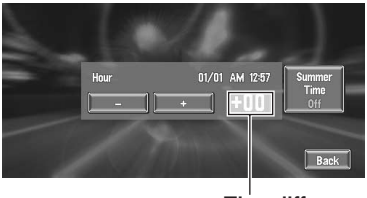
↓

6 Press the NAVI/AV button to change the navigation screen.

Some time is needed until navigation is ready.

7 Check the details of the cautionary message and touch "OK".

8 To set the time difference, touch "+" or "–".



Time difference

The time difference between the time originally set in this unit (Pacific Standard Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching "**+**" or "**–**" changes the time difference display in one-hour increments. The time difference can be set from +3 to –3 hours.

9 If necessary, set to summer time.

Daylight Saving Time (DST) is off by default. Touch "**Summer Time**" to change the time if you are in the daylight saving period. This turns the display below DST "**On**".

10 To complete the setting, touch "Back".

The map of your surroundings appears.

This completes the setup of your Navigation System. Chapter 1 explains the basic operation of your Navigation System.

➲ To change the language and time later → Page 57

Memory Navi Mode

While the map disc is inserted, you can store the data on the map disc into the memory of the navigation unit. If the map disc is removed from the navigation unit after the data is stored, navigation is performed using the data in the memory (memory navi mode). In the memory navi mode, you can play a music CD or DVD video on the navigation unit while navigation is taking place. The operation is automatically switched to the memory navi mode when the map disc is removed from the navigation unit.

Navigation in the memory navi mode

During the memory navi mode, navigation is performed only using the data read into the memory. Therefore, some functions are restricted compared with navigation using the map disc (DVD navi mode). These function buttons, which cannot be used in the memory navi mode, are indicated in dark gray. If you want to use these functions, please insert the map disc again. In addition, you may need to insert the map disc and store new data in the memory in during navigation operation, such as when the destination is far away.

The memory navi mode uses the following map data to perform navigation.

The following are collectively known as Memory Data:

- Manually downloaded memory area data in the "**Set Memory Area**" of the Settings menu (Manual downloaded Memory Area)
- Automatically downloaded memory data of the surrounding areas during the route search (Auto downloaded Memory Area)

➲ Setting of the memory area ➞ Page 55

What is manual downloaded memory area?

Memory area is the area of the map data, which the user voluntarily read into the memory for the memory navi mode. Normal guidance is available if the memory area is registered and you drive within the stored area.

What is auto downloaded memory area?

This is the vicinity of the route in the map area automatically stored in the memory when the route is set. When the route distance is less than about 50 miles, a zone with a width of approximately 7.5 miles around the route is stored. When the route distance is about 62.5 miles or more, a zone with a width of approximately 5 miles around the route is recorded. As you set the route, this data is transmitted to the memory. When a new route is entered, memorized data is deleted.

The data read into the memory will not be deleted even when the vehicle's engine is turned off.

Navigation operation during the memory navi mode

- ○ :operation possible
- △ :operation restricted
- × :operation not possible

Main menu	
Destination menu	
Address Search	×
Return Home	×
Go to	×
POI Search	×
Vicinity Search	×
Address Book	×
Destination History	×
Freeway Search	×
Telephone Search	×
Cancel Route	○
Information menu	
Route Profile	△
Overlay POI	×
Connection Status	○
Route Scroll	×
Read from Disc	○
3D Calibration	○
Route Options menu	
Number of Routes	○
Avoid Toll Road	○
Designate Areas to Avoid	×
Avoid Freeway	○
Avoid Ferry	○
Route Condition	○
Settings menu	
Return Home	×
Go to	×
Set Memory Area	×
Average Speed	○
Hardware Volume	○
Demo Mode	×
Day/Night Display	○
Map Display	○
Background Picture Setting	○
Language Selection	×
Mute Setting	○
Time	○
Modify Current Location	○
KM/Mile Setting	○
Auto Voice Recognition	○
Voice Recog.Help	○

Shortcut menu	
:Destination	×
:Chg.Route	△
:Registration	○
:Vicinity Search	×
:Overlay POI	×

About the icon for the memory navi mode

When new route guidance starts, the route data from the map disc is read into the memory of the navigation unit. The status of the memory navi mode is indicated by the following icons on the top left of the map screen.

(green flashes): Reading the data
(green is lit): Operated in memory navi mode
(red is lit): Operated in memory navi mode, but the distance for guidance is 12.5 mi or less.

❒ Where the distance for navigation guidance is unknown, the icon flashes red. In that case, the guidance may suddenly fail. It is therefore recommended to reinsert the map disc.

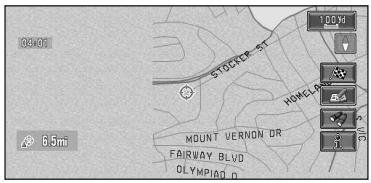
When disappears, memory navi mode is ready. You can now remove the map disc and use the memory navi mode function.

❒ If you want to remove the map disc while preparing for the memory navi mode, press the **EJECT** button more than 2 seconds. When the map disc is removed, data cannot be read and preparation for memory navi mode will accordingly be canceled. (Since the reading of the map data used in the memory navi mode is not complete, the map scale may switch to a larger scale. In this case, route guidance will continue up to the location already memorized.)

In memory navi mode, you will be notified in three cases: when the distance to the edge of the memorized area is 12 mi (20 km), 6 mi (10 km) and 3 mi (5 km) respectively.
Preparation for memory navi mode will have to be repeated if the vehicle enters an unrecorded area, then returns to an area stored in the disc. (Preparation for the memory navi mode starts from the location where the vehicle re-entered the area stored on the disc.)

Major difference between the memory navi mode and the DVD navi mode

- Free zooming of scale is not available.
- Detailed city map cannot be displayed.
- If a route was set to your destination in memory navi mode, inserting the map disc automatically starts recalculation of another route. (You cannot cancel this reroute operation. If the route calculation fails for some reason, a message will appear asking you to either recalculate a route (Reroute) or delete the current route (Delete route). In this case, drive for a while before touching either “Reroute” or “Delete route” to delete the current route, then reset the destination.)
- In some cases, you may not be able to use map display mode during DVD navi mode. If the map display mode is not changed during memory navi mode, when the disc is set next time, the display will return to the map display mode used during the DVD navi mode.
- In memory navi mode, map scale data that cannot be read in the memory cannot be displayed. Accordingly, the edge of the map will appear cut off along the point it was not read into memory. This simply indicates the edge of the map data, and is not a malfunction.



- If you keep driving or scrolling the map to a point where the map can no longer be displayed, the scale automatically switches to a range possible to display. If you would like to continue driving or scrolling the map at the same scale, set the map disc in the navigation unit.
- If the route is set and the vicinity area of the route is stored in the memory, map matching is performed. If you continue to drive outside the route for a while, you may not be able to perform map matching.
- If you deviate from the route during memory navi mode, the route has been set will be rerouted, but only to return you to the original route calculated within the memorized area.

- Although an enlarged map of the intersection will be displayed, no special freeway illustration (illustration of freeway junctions) will be displayed.
- Voice recognition functions face some limitations compared to DVD navi mode.

➲ "Voice Commands" ➞ Page 94

Cautions relating to auto reroute in memory navi mode

Auto rerouting in memory navi mode is designed to return you to your original route wherever possible.

In memory navi mode, persistently deviating from the route may result in one of the following:

- A clearly circuitous route
- Leaving a toll road and returning to the toll road from where you left it.

In the above case, if the set route seems unsuitable, insert the map disc that records your current position. Setting the map disc to navigation automatically resets the route from your current location to your destination.

Operation outside the memorized area

When the vehicle leaves the memorized area, the functions will be limited.

- The auto reroute function does not work.
- You can only display a larger scale map. The map display will automatically change to a 25-mi (or 50-mi) scale.
- The map matching function will not be available. Therefore, the position of your vehicle may be misaligned.
- Only the navigation guidance when arriving to your destination will be available; no other guidance is possible (this includes no display of direction arrows).

To cancel these limitations, reset the map disc to the navigation system.

Deleting the memory data

The memorized area may be deleted in the following circumstances:

- Yellow lead of the navigation system or the vehicle battery is disconnected.
- **RESET** button is pressed.
- Software is updated.

❒ In these circumstances, the system will automatically try to recover the deleted information, but data can be recovered only for areas stored on the disc. For items that could not be recovered, a recovery process will begin when you set another disc.

Vehicles that Cannot Obtain Speed Pulse Data

❒ The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your vehicle model. In some cases, it is impossible to make a connection to it, and in such a case we recommend that the ND-PG1 speed pulse generator (sold separately) be used.

Conditions Likely to Cause Noticeable Positioning Errors

For various reasons such as the state of the road you are traveling on and the state of reception of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.
Some types of vehicle may not output a speed signal while driving at just a few kilometers per hour. In such a case, the current location of your vehicle may not be displayed correctly while in a traffic jam or in a parking lot.

About the Data being Deleted

The information is erased by pushing the **RESET** button or disconnect yellow lead from battery (or remove the battery itself), except for the following items.

- Sensor learning status and driving status
- Memory area memorized manually
- Area to avoid
- Registered Locations

Limitation of Functions for Areas not Stored on the Disc

For areas not stored on the disc (unrecorded areas), the functions will operate as follows:

➲ Inoperable buttons for unrecorded areas → Page 25

Displaying the Map

- Maps with a scale of between 0.02 mi and 0.25 mi cannot be displayed. (If the scale was set to between 0.02 mi and 0.25 mi, it is automatically switched to 0.5 mi.)
- When driving with **Guide View**, **Route View** or **Driver's View**, upon entering an unrecorded area the display automatically switches to **Map View**. (When the vehicle re-enters an area stored on the disc, the display returns to the previous map mode except for **Driver's View**.)

Destination Search

- You cannot search a destination in an unrecorded area using **Address Search**, **POI Search**, or **Telephone Search**. (In case of the POI search, only "City Center" search is possible.)
- If you cannot search in a currently selected zone, the system may forcibly switch to the zone selection screen.
- A **Freeway Search** covers all areas, regardless of the disc on which the information is recorded.
- If a **Vicinity Search** is performed on the border of an unrecorded area, the system will not necessarily select the nearest facility. (The search will take place only within the range of areas recorded on the disc.)

Guidance

- When your vehicle approaches an unrecorded area, you will be notified three times: when the distance to the unrecorded area is 12 mi (20 km), 6 mi (10 km) and 3 mi (5 km) respectively. When your vehicle enters the unrecorded area, a caution is given.
- In the unrecorded area, only guidance for reaching the destination is provided. No other guidance is given.
- If a route calculation is operated within an unrecorded area, the route might not be set from the streets you are currently driving. Also, if you set the destination in an unrecorded area of the disc, the system may not be able to set the route up to the destination.
- If the vehicle deviates from the set route in an unrecorded area, the Auto Reroute function will not work.
- Even if "**Close-up of Junction**" is "**ON**", the display will not switch to an enlarged map of the intersection.
- The arrow indicating the traveling direction will not be displayed in the **Audio Status** and the Audio screen.

Route Information

- If the set route goes through an unrecorded area, no route profile for the unrecorded area will be displayed. (If the set route traverses both an unrecorded area and area stored on the disc, only the route profile within the recorded area will be displayed.)
- Route scrolling for an unrecorded area is possible only with a map scale of 0.5 mi or above.

Other Function Limitations

Overlay POI

- **Overlay POI** is not available in an unrecorded area.

Memory Mode

- Only data for areas stored on the disk can be memorized. (Data for unrecorded areas cannot be memorized.)

Avoid Area

- An area not stored on the disc cannot be set as an Area to Avoid.

❒ A set Area to Avoid may be deleted when the software is updated. If this happens, the system will automatically try to recover the deleted information, but data can be recovered only for areas stored on the disc. For items that could not be recovered, a recovery process will begin when you set another disc.

Troubleshooting

If you have problems operating your Navigation System, refer to this section. The most common problems are listed below, along with likely causes and solutions. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

Problems in the Navigation screen

Symptom	Cause	Action (See)
Power doesn't turn on. The unit doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install the correct fuse with the same rate.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Press **RESET** button. (→ "HardWare Manual" and refer to page 102 in this manual.)
There's no sound. Volume level is low.	The volume level is low. Adjust the volume level.	The attenuator is on. Turn the attenuator off.
When the ignition switch is turned ON (or turned to ACC), the motor sounds.	This unit confirms whether a disc is loaded or not.	This is a normal operation.
You cannot position your vehicle on the map or the positioning error is large.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Such a loss of signal quality may happen for the following reasons: •The GPS antenna is in an unsuitable location. •Obstacles are blocking signals from the satellites. •The position of satellites relative to your vehicle is bad. •Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.) •If a vehicle phone or cellular phone is used near the GPS antenna, GPS reception may be lost temporarily. •Do not cover the GPS antenna with spray paint or vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.	Check the GPS signal reception (→ Page 52) and the position of the GPS antenna if necessary, or continue driving until reception improves. Keep the antenna clear.
	Signals from the vehicle's speed pulse are not being picked up properly.	Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
	The navigation unit may not be mounted securely in your vehicle.	Check that the navigation unit is securely mounted and, if necessary, consult the dealer that installed the system.

Symptom	Cause	Action (See)
	Your vehicle is operating in Simple hybrid mode.	Connect the speed signal input (pink lead wire) of the power cable correctly, and reset the 3D Hybrid Sensor (“**Learning Status**”).
	The navigation unit is installed with an extreme angle exceeding the limitation of the installation angle.	Confirm the installation angle. (This unit must be installed within +30 degrees to –30 degrees of the horizontal, or within five degrees of your vehicle’s direction of travel.)
	Indication of the position of your vehicle is misaligned after a U-turn or reversing.	Check whether or not the reverse gear signal input lead (purple) is connected properly. (The Navigation System works properly without the lead connected, but positioning accuracy will be adversely affected.)
The map continually reorients itself.	The traveling direction is always set to north.	Touch on the screen and change the map display.
Tracking marks are not displayed.	The “**Tracking Display**” is turned off.	Check the “**Tracking Display**” settings (→ Page 56) and make sure “**Always**” or “**This Trip**” is selected.
The daylight display is used even when the vehicle lights are on.	Daytime is selected on “**Day/Night Display**”.	Check the “**Day/Night Display**” setting (→ Page 56) and make sure “**Nighttime**” is selected.
	The Orange/white lead is not connected.	Check the connection.
The system will not switch on or will not operate.	Installation or connection has been carried out incorrectly.	Check with your dealer.
The display is very dim.	The vehicle’s light is turned ON, and “**Nighttime**” is selected on “**Day/Night Display**”.	Read about the “**Day/Night Display**” setting (→ Page 56) and, if desired, select “**Daytime**”.
	The vehicle cabin temperature is extremely low.	A Liquid Crystal Display (LCD) is used, and such displays tend to darken when cold. Wait for the vehicle to warm up.
	Picture quality adjustment of the display is not correct.	Refer to “Hardware Manual” to adjust the picture quality.
	Ambient light sensor of the display is hidden.	Set the ambient light sensor not to be hidden.
There is no voice guidance or the volume is low.	The volume setting is low or the speaker lead is disconnected.	Check the volume setting on the display or turn the volume up according to “**Hardware Volume**” (→ Page 56) and/or turn up the volume on the display.
Does not switch to **Vehicle Dynamics**.	The navigation unit sensor does not begin working immediately after the navigation unit is installed on the vehicle.	Drive for a little while.
Slope is not displayed on the **Vehicle Dynamics** screen. **Inclination** does not move on the **3D Calibration** screen.	The speed pulse lead is not connected.	Connect the speed pulse lead.

When the screen is frozen...

Park your vehicle at a safe place, and cut the engine off. Turn the ignition key back to “Acc off”. Then start the engine again, and turn the power to the navigation unit back on. If this does not solve the problem, press the **RESET** button on the navigation unit.

Problems in the Audio screen (common)

Symptom	Cause	Action (See)
Playback is not possible.	The disc is dirty.	Clean disc. (→ "Hardware Manual")
	The loaded disc is a type this unit cannot play.	Check what type the disc is.
	Non compatible video system disc is loaded.	Change to a disc compatible to your video system.
There's no picture.	The parking brake cord is not connected.	Connect a parking brake cord, and apply the parking brake.
	The parking brake is not applied.	Connect a parking brake cord, and apply the parking brake.
There's audio and video skipping.	This unit is not firmly secured.	Secure this unit firmly.
Rear display picture disappears.	• The source disc being listened to with the product has been ejected. • The **REAR** button was pressed and REAR ON mode switched off. • There was a problem with the rear display or a faulty wiring connection, for example. • **Rear View** is selected on the screen. • When the shift lever is in [R], displays rear view camera images. (When "**NAVI**" is selected in **REAR DISP** menu.)	• Before ejecting the disc, switch the source. This problem may occur when certain connection methods are used. • Press the **REAR** button to turn REAR ON mode on. • Check the rear display and its connection. • Select view mode other than Rear View. • Move the shift lever other than turn [R] position. (Select **SOURCE** in **REAR DISP** menu.)
Nothing is displayed and the touch panel keys cannot use.	The setting for the rear view camera is incorrect. The shift lever was placed in [R] when the rear view camera was not connected.	Connect a rear view camera correctly. Press **NAVI/AV** button to return to the source display and then select the correct setting for **CAMERA**. ➲ About **CAMERA** setting → Page 89

Problems in the Audio screen (during DVD video playback)

Symptom	Cause	Action (See)
No sounds are heard. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The unit is performing still, slow motion or frame-by-frame playback.	There is no sound during still, slow motion or frame-by-frame playback.
	"dts" is selected for the DVD video disc sound track.	Switch to a non "dts" sound track.
The icon ⃠ is displayed, ⃠ and operation is not possible.	The operation is prohibited for the disc.	This operation is not possible.
	The operation is not compatible with the disc's configuration.	This operation is not possible.
The picture stops (pauses) and the unit cannot be operated.	Reading of data has become impossible during playback.	After touching ■ once, start playback once more.
The picture is stretched, the aspect is incorrect.	The aspect setting is incorrect for the display.	Select the appropriate setting for your display. (→ "Hardware Manual")
Playback is not possible.	The loaded disc has a different region number from this unit.	Replace the disc with one featuring the same region number as this unit. (→ "Hardware Manual")
A parental lock message is displayed and playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (→ Page 85)
Parental lock cannot be canceled.	The code number is incorrect.	Input the correct code number. (→ Page 85)
	You have forgotten your code number.	Touch "**CLEAR**" 10 times to cancel the code number. (→ Page 85)
Dialog language (and subtitle language) cannot be switched.	The DVD playing does not feature multiple language recordings.	You cannot switch among multiple languages if they aren't recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch using the disc menu.

Symptom	Cause	Action (See)
No subtitles are displayed.	The DVD playing does not feature subtitles.	Subtitles are not displayed if they are not recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch using the disc menu.
Playback is not with the audio language and subtitle language settings selected in DVD SETUP.	The DVD playing does not feature dialog or subtitles in the language selected in DVD SETUP.	Switching to a selected language is not possible if the language selected in DVD SETUP is not recorded on the disc.
Switching the viewing angle is not possible.	The DVD playing does not feature scenes shot from multiple angles.	You cannot switch between multiple angles if the DVD does not feature scenes recorded from multiple angles.
	You are trying to switch to multiple angle viewing of a scene that is not recorded from multiple angles.	Switch between multiple angles when watching scenes recorded from multiple angles.
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since this unit is compatible with the copy guard analog copy protect system, when playing a disc that has a signal prohibiting copying, the picture may suffer from horizontal stripes or other imperfections when viewed on some displays. This does not mean this unit is malfunctioning.

Messages and how to react to them

The following messages may be displayed by your Navigation System.

❒ There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

Message	When	What to do
You cannot use this function while driving.	While trying to make a menu selection.	Pull over and come safely to a halt, put the parking brake on, and then try again.
This is not the appropriate disc. Please insert the appropriate disc.	If you try to use a disc which is incompatible with this system (including the old version map disc).	Insert a suitable disc.
	If you insert a disc upside down.	Insert the disc with the label upward.
	If the disc is dirty.	Clean the disc.
	If the disc is cracked or otherwise damaged.	Insert a normal, round disc.
Irregular speed pulse signal is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press “OK”.	If the Navigation unit does not receive the vehicle speed pulse.	Consult your Pioneer dealer.
Speed pulse wire is not connected. System will start to learn without speed pulse. Please keep in mind that accuracy is not fully ensured without speed pulse.	The speed signal input (pink lead wire) of the power cable is not connected.	To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power cable correctly. Although it can be operated with Simple hybrid mode without connecting the speed signal input, the precision of the positioning will be less accurate.
Vibration is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press “OK”.	While the vehicle is stationary, the Navigation System is installed in a place where the navigation unit may be affected by a large vibration.	Re-install the navigation unit of the Navigation System in a place where the navigation unit will not be affected by vibration.
Sensor NG (Vibration)		

Message	When	What to do
Direction of G sensor is not correct. Please power off the system and check the installation. After you have checked, please re-boot the system and press "OK".	Direction of G sensor is set incorrectly.	See the "Installation Manual" and set the direction of the Hide-away unit correctly.
Sensor NG (BAD) angle	The navigation unit is installed with an extreme angle exceeding the limitation of the installation angle.	Confirm the installation angle. (The navigation system must be installed within +30 degrees to –30 degrees of the horizontal, or within five degrees of your vehicle's direction of travel.)
Gyro Sensor is not working properly. Please consult your dealer or Pioneer service center.	Abnormal output of Gyrosensor is detected.	Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.
The route could not avoid the specified area.	If route setting cannot avoid specified Areas to Avoid.	Choose whether or not to try setting a route through the area.
Your route could not be found.	Route calculation has failed because of malfunction of map data, software, hardware, or disc.	•Change the destination. •Clean the disc. •Consult the Pioneer Local dealer if this message persists.
Route calculation was not possible.	Route calculation has failed because of malfunction of map data, software, hardware, or disc.	•Change the destination. •Clean the disc. •Consult the Pioneer Local dealer if this message persists.
Route calculation was not possible because the destination is too far.	The destination is too far.	• Set a destination closer to the starting point. • Set one or more way points.
Route calculation was not possible because the destination is too near.	The destination or way point(s) is too close.	Set a destination [and way point(s)] farther from the starting point.
Route calculation was not possible due to traffic regulations.	•The destination or way point(s) are in a Control Traffic Zone (CTR) and the route calculation is hampered. •Your vehicle is currently in a Control Traffic Zone (CTR) and the route calculation is hampered.	•Set a destination and way point(s) outside the CTR if you know where the restricted area is. •Try the destination or way point(s) away from the currently set points to some extent. •Drive your vehicle to an unrestricted area and reset the destination and way point(s).
Route calculation was not possible because no guidance can be provided around the destination or the starting point.	The destination, way point(s), or starting point are in an area where no road exists (e.g. a mountain) and the route calculation is impossible.	•Set a destination and way point(s) on roads. •Reset the destination after you drive the vehicle to any road.
There is no route to the destination.	The destination or way point(s) are in an isolated island, etc. without a ferry and the route calculation is impossible.	Change the destination.
The maximum number of registrations has been completed. Please clear existing registered items and re-register current item.	If there are already 300 items when you attempt to register an item in the Address Book.	Delete some destinations as appropriate.
Memory is full.	When the total 300 resistered points are in the CD-R and Address Book, you attempt moving an item to the Address Book from CD-R.	Delete unnecessary data and try to register again.
Irregular character strings. Please input again.	A symbol that cannot be pronounced was entered.	Enter a word that can be pronounced.
An error has occurred. Please note the following error code and switch power off.	In the case of a system failure.	Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.

Message	When	What to do
DVD Player is overheating. Discontinue until temperature drops.	The built-in DVD drive has overheated.	Cut the power off, and wait for a while before turning the power on again.

Error Messages

When problems occur with disc playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.
The messages in "( )" will appear on the sub-display.

Message	Cause	Action (See)
Error-02 (ERROR-20, ERROR-21, ERROR-22)	Dirty	Clean disc.
	Scratched disc	Replace disc.
	The disc is loaded upside down	Check that the disc is loaded correctly.
Error-05-82 (ERROR-50)	Electrical or mechanical	Press **RESET** button. ("Hardware manual" and refer to page 102 in this manual.)
DIFFERENT REGION DISC (REGION ERR)	The disc does not have the same region number as this unit	Replace the DVD video with one bearing the correct region number.
NON PLAYABLE DISC (NON-PLAY)	This type of disc cannot be played by this unit	Replace the disc with one this unit can play.
THERMAL PROTECTION IN MOTION (TEMP)	The temperature of this unit is outside of the normal operating range	Wait until the unit's temperature returns to within normal operating limits.

Route Setting Information

Route search specifications

Your Navigation System sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.

⚠ CAUTION

- **When a route is calculated, the route and voice guidance for the route is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.**
- **Update Navigation DVDs are available for purchase from your local Pioneer dealer that includes the most current map and point of interest information. Contact your local Pioneer dealer for details.**

About the route condition

When the calculation of only one route is set, you can search a route option by combining the following conditions.

➲ How to set the calculation conditions ➞ Page 39

For example, when "**Fastest**" and "**Avoid Freeway**" ("**On**") are combined, the route, which avoids freeway, and has the shortest travel time, will be calculated and displayed on the screen.
Condition 1 :whether to put priority on the distance, or time

Shortest :
Calculate a route with the shortest distance to your destination as a priority.

Fastest :
Calculate a route with the shortest travel time to your destination as a priority.

Condition 2 :whether to use freeway or not

Avoid Freeway :
Calculate a route that avoids freeway. (A route using the freeway may be set if your destination is far away.)

- The system assumes the driver deviated either intentionally or inadvertently from the route and searches for another route (intelligent rerouting). Depending on the situation, the system may search a new route that does not return to the original one.
- The calculated route is one example of the route to your destination decided by the Navigation System whilst taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to pass. If you want to pass a certain street, set the way point on that street.)
- The route set by your Navigation System is based on the assumption that the driver does not know the area. Thus, the streets known to local drivers, such as small streets or special roads, may not be used for the set route.
- Some route options may become the same route. If visiting points are set, or the route is set by voice operation, only one route is calculated.
- Route setting is limited to the range of the disc in use.
- The destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set way points along the way.)
- During voice guidance, turns and junctions from the freeway are announced. However, if you pass junctions, turns, and other guide points in rapid succession, some may not be announced.
- It is possible that guidance may direct you off a freeway and then back on again.
- In some cases, the set route may require you to travel in the opposite direction to your current heading. In such cases, you are instructed to turn around, so please turn around safely by following the actual traffic rules.
- In some cases, guidance may direct you past your destination and then indicate a U-turn to get back to it.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- In the following cases, the route that passes through an Area to Avoid may be set:
  - when your vehicle is in the Area to Avoid
  - when your destination or way points are in the Area to Avoid
  - when it is not possible to avoid doing so
- If a suitable route cannot be set in compliance with the specified “Detour” distance, or your preference to avoid freeways, toll roads, ferry route, the setting or parameter may be ignored.
- When there is a traffic jam ahead, if driving through the traffic jam is better than taking the detour, a detour route may not be set.
- There may be instances when the starting point and the destination point are not on the highlighted route.
- The number of roundabout exits displayed on the screen may differ from the actual number of roads.
- Auto Reroute function does not work in the following cases:
  - when your vehicle is not on a street
  - when your vehicle is on a ferry
  - when driving on a road inside a facility
  - when driving on a roundabout
  - when your vehicle is out of Memory area
  - when the vehicle goes out of the area stored in the disc during DVD navigation mode
  - when the vehicle goes out of the memorized area during memory navi mode

Route highlighting

- Once set, the route is highlighted in bright green on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Intersection enlargement

- When "**Close-up of Junction**" is on, the map scale increases to show more detail as you approach an intersection.
- If the intersection is approached in a gentle curve, the map displayed may differ from the actual road layout.

Tracking

- Your Navigation System marks your course on the map in certain increments. This is called tracking. It is handy when you want to check a route traveled without guidance or if returning along a complex route.
- A maximum of about 145 miles (230 km) is marked and, as you travel beyond this limit, tracking marks are erased in order from the most distant. Tracking display shows about 100 miles tracking of your vehicle with white dots.

➲ Tracking can also be set for automatic erasing whenever the Navigation System is switched off ➞ Page 56

Types of the Road Stored in the Disc

There are three types of roads in the map of this disc.

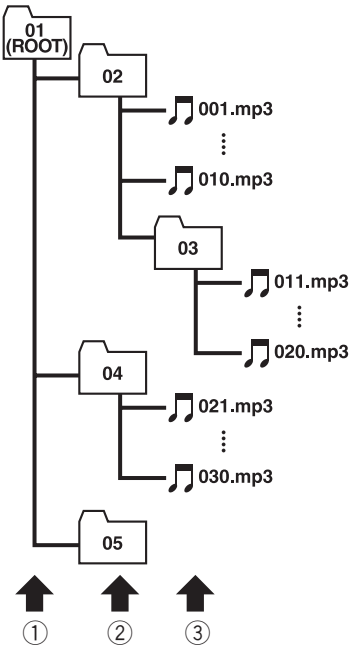
Turn by Turn Routable Roads contain full attribute data and can be used for full Route Guidance. Pioneer Navigation will display full route guidance, including turn-by-turn voice directions and arrow icons.

Routable Roads (The Route displayed and highlighted in Purple Color) have only basic data and can only be used to plot a navigable route. Pioneer Navigation will only display a navigable route on the map (only the arrival guidance for the destination or a way point is available). Please review and obey all local traffic rules along the highlighted route. (For your safety.)
No turn-by-turn directions or arrow icons will be displayed on these roads.
When your vehicle reaches to the entrance of this road, the icon will be displayed, indicating that the guidance is not available with this type of road. The icon will be indicated for the road with which the guidance is available.
The Close-up of intersection function, Auto Reroute function, Changing the view to Guide View, or Route View are not available.

Non Routable Roads (Pink Color Road)
Map display is possible, but it cannot be used for the route calculation. Please review and obey all local traffic rules along this route. (For your safety.)

About Folders and MP3 Files

- An outline of a CD-ROM with MP3 files on it is shown below. Subfolders are shown as folders in the folder currently selected.



① **First level**

② **Second level**

③ **Third level**

Notes:

- This unit assigns folder numbers. The user can not assign folder numbers.
- If you are using a folder that does not contain an MP3 file, the folder itself will display but you will not be able to see any files in the folder.
- MP3 files in up to 8 tiers of folders can be played back. However, there is a delay in the start of playback on discs with numerous tiers. For this reason we recommend creating discs with no more than 2 tiers.
- It is possible to play back up to 253 items from folder on one disc.

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Glossary

This glossary explains some of the terms used in the manual.

3D Hybrid sensor
The built-in sensor which enables the system to estimate your vehicle's position. A learning function increases its accuracy and two sets of learning data can be stored in memory.

Address Book
A list of previously searched destinations, way points and locations registered manually.

Aspect ratio
This is the width-to-height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Bit rate
This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Chapter
DVD titles are in turn divided into chapters which are numbered in the same way as the chapters of a book. With DVD video discs featuring chapters, you can quickly find a desired scene with chapter search.

Current location
The present location of your vehicle; your current location is shown on the map by a red triangle mark.

Default setting
A factory setting which applies when you first switch on the system; you can change default settings to suit your own needs in the Route Options menu or the Settings menu.

Destination
A location you choose as the end point of your journey.

Dolby Digital
Dolby Digital provides multi-channel audio from up to 5.1 independent channels. This is the same as the Dolby Digital surround sound system used in theaters.

DTS
This stands for Digital Theater Systems. DTS is a surround system delivering multi-channel audio from up to 6 independent channels.

Favorite location
A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS
Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance mode
The mode in which guidance is given as you drive to your destination; the system automatically switches to this mode as soon as a route has been set.

Guidance point
These are important landmarks along your route, generally intersections. The next way point along your route is indicated on the map by the yellow flag icon.

Home location
Your registered home location.

ID3 tag
This is a method of embedding track-related information in a MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted to the number of characters, the information can be viewed when the track is played back.

ISO9660 format
This is the international standard for the format logic of CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:
The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters and half-byte numerals and the "_" sign, with a file-extension of three characters.)

Level 2:
The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.

Extended formats
Joliet:
File names can have up to 64 characters.
Romeo:
File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation
This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs. Generally, DVDs are recorded with higher sampling frequency and bit rate than CDs. Therefore, DVDs can provide higher sound quality.

m3u
Playlists created using the "WINAMP" software have a playlist file extension (.m3u).

Menu
A list of options shown on the display; choices are selected touching the display.

MP3
MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

MPEG
This stands for Moving Pictures Experts Group, and is an international video image compression standard. Some DVDs feature digital audio compressed and recorded using this system.

Multi-angle
With regular TV programs, although multiple cameras are used to simultaneously shoot scenes, only images from one camera at a time are transmitted to your TV. Some DVDs feature scenes shot from multiple angles, letting you choose your viewing angle as desired.

Multi-audio (Multilingual dialog)
Some DVDs feature dialog recorded in multiple languages. Dialog in up to 8 languages can be recorded on a single disc, letting you choose as desired.

Multi-session
Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions in one disc.

Multi-subtitle
Subtitles in up to 32 languages can be recorded on a single DVD, letting you choose as desired.

Navigation map disc
This DVD-ROM disc contains Pioneer navigation software. Map data is also recorded on the disc.

Optical digital output
By transmitting audio signals in a digital signal format, the chance of sonic quality deteriorating in the course of transmission is minimized. An optical digital output is designed to transmit digital signals optically.

Packet write
This is a general term for a method of writing on CD-R, etc. at the time required for a file, just as is done with files on floppy or hard discs.

Parental lock
Some DVD video discs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, or these scenes will be skipped.

Point of Interest (POI)
Point Of Interest; any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

Region number
DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player. The navigation unit's region number is displayed on the bottom of the display unit.

Route setting
The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route
The route marked out by the system to your destination. It is highlighted in bright green on the map.

Title
DVD video discs have high data capacity, enabling recording of multiple movies on a single disc. If, for example, one disc contains three separate movies, they are divided into title 1, title 2 and title 3. This lets you enjoy the convenience of title search and other functions.

Tracking
Marks on the map indicating the route you have traveled.

VBR
VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression priority sound quality.

Voice guidance
The giving of directions by a recorded voice while in guidance mode.

Voice recognition
The technology that allows the system to understand the driver's voice commands.

❒ In order to operate the navigation unit by voice, you need the microphone kit (CD-VC1), which is sold separately. Please refer to the "Owner's Manual" for the microphone kit.

Way Point
A location that you choose to visit before your destination; a journey can be built up from multiple way points and the destination.

Display Information

Main menu

Destination

- Address Search ▶ P. 20
- Return Home ▶ P. 38, 45
- Go to ▶ P. 38, 45
- POI Search ▶ P. 35
- Vicinity Search ▶ P. 36
- Address Book ▶ P. 39, 46
- Destination History ▶ P. 39, 46
- Freeway Search ▶ P. 37
- Telephone Search ▶ P. 38
- Cancel Route ▶ P. 43

Information

- Route Profile ▶ P. 42
- Overlay POI ▶ P. 36
- Connection Status ▶ P. 52
- Route Scroll ▶ P. 41
- Read from Disc ▶ P. 48
- 3D Calibration ▶ P. 52

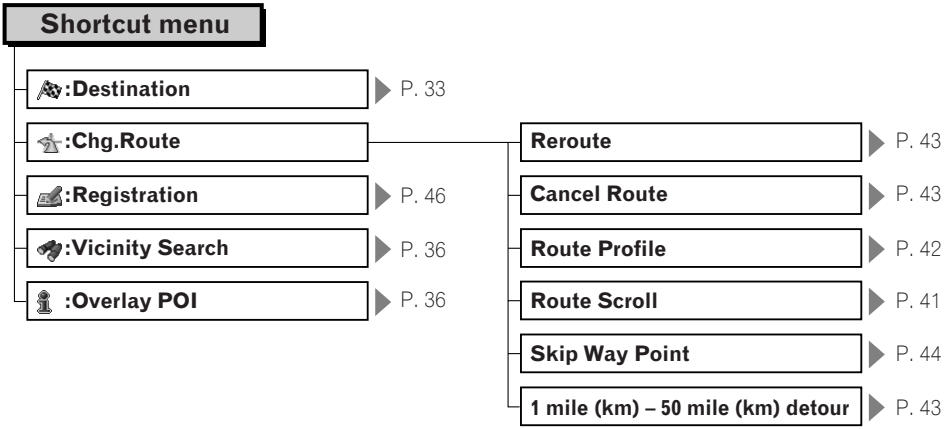
Route Options

- Number of Routes ▶ P. 39
- Avoid Toll Road ▶ P. 39
- Designate Areas to Avoid ▶ P. 39
- Avoid Freeway ▶ P. 40
- Avoid Ferry ▶ P. 40
- Route Condition ▶ P. 40

Settings

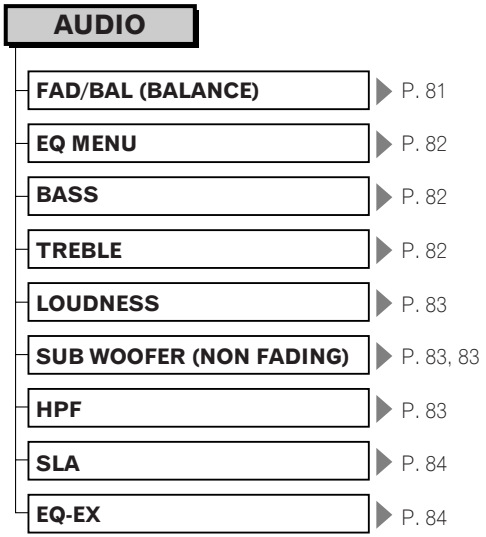
- Return Home ▶ P. 45
- Go to ▶ P. 45
- Set Memory Area ▶ P. 55
- Average Speed ▶ P. 56
- Hardware Volume ▶ P. 56
- Demo Mode ▶ P. 56
- Day/Night Display ▶ P. 56
- Map Display
  - Tracking Display ▶ P. 56
  - Close-up of Junction ▶ P. 56
  - AV Guide Mode ▶ P. 56
  - Arrow in AV ▶ P. 57
- Background Picture Setting ▶ P. 57
- Language Selection ▶ P. 57
- Mute Setting
  - Voice Recognition ▶ P. 57
  - Voice Guidance ▶ P. 57
- Time ▶ P. 57, 98
- Modify Current Location ▶ P. 57
- KM/Mile Setting ▶ P. 57
- Auto Voice Recognition ▶ P. 58
- Voice Recog.Help ▶ P. 58

Shortcut menu

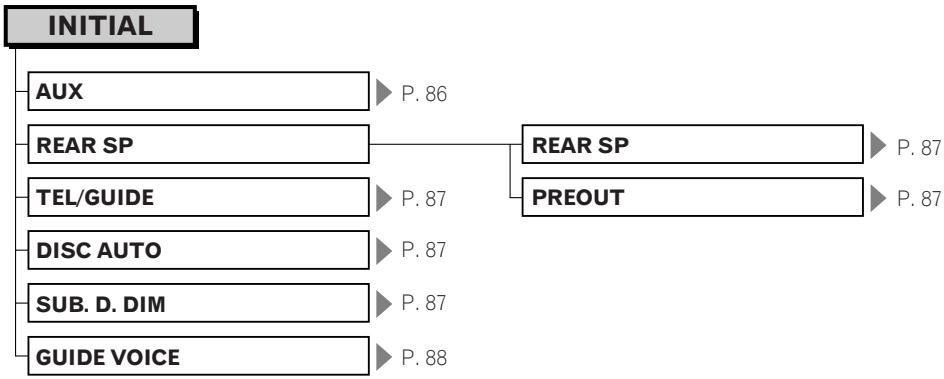


Menu in the audio screen

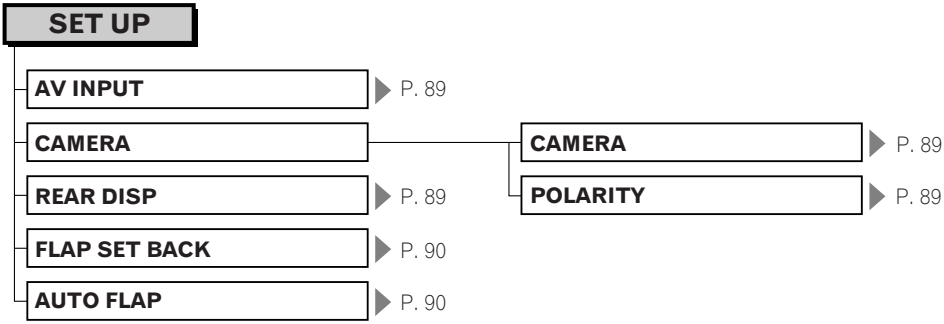
AUDIO menu



INITIAL menu

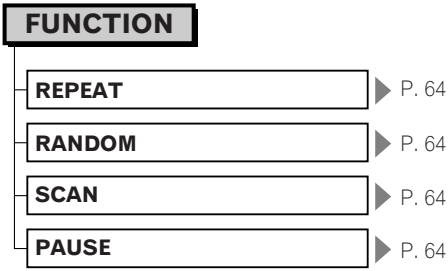


SET UP menu

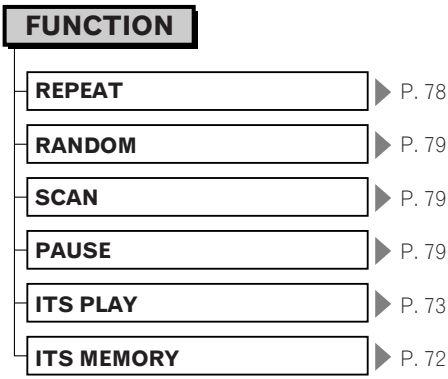


FUNCTION menu

DISC [DVD video, CD, MP3]



S-DVD (M-DVD)



M-CD

FUNCTION

- **REPEAT** P. 72
- **RANDOM** P. 72
- **SCAN** P. 72
- **TRACK LIST** P. 73
- **PAUSE** P. 72
- **COMP** P. 74
- **ITS PLAY** P. 73
- **ITS MEMORY** P. 72

RADIO

FUNCTION

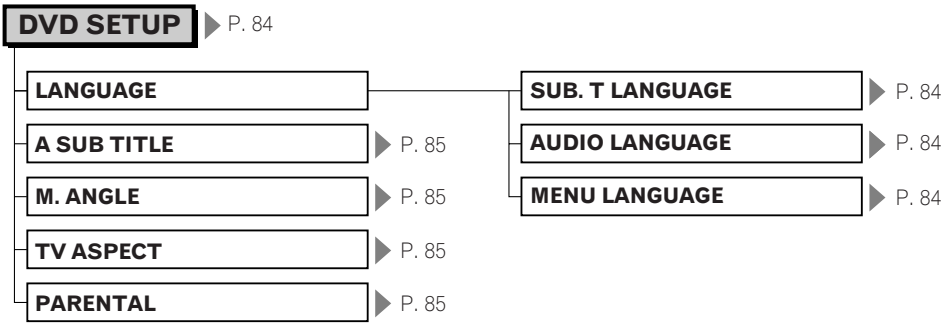
- **BSM** P. 69
- **LOCAL** P. 69

TV

FUNCTION

- **BSSM** P. 77

DVD SETUP menu



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http://www.pioneerelectronics.com

See "Product registration" page

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